

**HEADQUARTERS
DEPARTMENT OF THE ARMY**

ARTEP 6-037-30-MTP

MISSION TRAINING PLAN

**FIELD ARTILLERY
CONSOLIDATED CANNON
BATTERY
M102, M119, M198, M109A5, M109A6 (PALADIN)**

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PREFACE

- P-1 This Mission Training Plan represents the first efforts of the Field Artillery School to use the Automated Systems Approach to Training (ASAT) software to produce training products. This software is a relational database designed to assist training developers in their efforts to produce quality training products in a digital format and deliver the products to users in the field as soon as possible. However, because a database and not a word processor produced this MTP, several peculiarities exist.
- a. Many types of sections perform many of the tasks in this manual. Therefore, you may see elements listed in the manual that do not exist in your unit. This happens because of the database process used. An example of this: You will see the command section listed as an element in the element/collective task listing in chapter 2 of all battery MTPs. A firing battery does not have a command section. This happens because Battery Commanders as well as Battalion Commanders perform the task "Reduce Battlefield Stress". The task appears in every MTP produced by USAFAS. You will also see the command section listed as an element that performs the task in chapter 5. When you review the task in chapter 5 keep this mind that some elements you see will not exist you specific unit, and you should disregard those elements.
 - b. Another thing that may appear unusual arises from the fact that when several different sections in different types of units perform the same task, you will see supporting individual tasks for MOS codes you do not have in your unit. Once again, disregard these individual tasks if they do not pertain to your unit.
- P-2 When you review the manual you will also see the format of the manual has changed considerably. This change was brought about in order to leverage the power of the database and to improve the school's ability to provide you with the most accurate and up to date information available.
- a. The Army has put considerable effort into the development of Combined Arms Training Strategies. (CATS) These strategies are address in more detail in the body of the manual in chapter 3.
 - b. The CATS effort has produced a number of training strategies for the FA community. Presently we have strategies for every type of unit in the FA. These strategies are listed in MS Word format on the WIDD home page. The address is listed in chapter 3 where you may get these. When you go to the site, open the table of contents and then go to unit training and you will see the hot link to CATS events.
- P-3 We are attempting to develop training products in a time when the bulk of systems are highly computerized and changes are common and frequent. Not only is equipment changing, but also, the concept of unit structures and missions are undergoing dramatic changes. All these things affect unit-training products. This rapidly changing environment causes changes to tasks and strategies. Up to this point, the field (users) had to wait until a new word processing document was produced to capture the new materials for specific tasks or training strategies. This caused the field to always be behind in the latest task data. We are very close to having the ability to make changes today and deliver them to the field tomorrow. By using ASAT and SATS, the field can get much closer to real time information. As tasks and CATS strategies are updated to reflect new technology, new doctrine, or improvements, the field will have access to this information through SATS. They will do this by downloading the new task from the Reimer Digital Library Data Repository (see chapter 3 for the address) or by going to WIDD homepage and getting a word processing document.

- a. The advantage of getting the database product from the Reimer data repository is that the data will be imported directly into your SATS database and will update the existing task. This will save you time and effort since the database produces reports, training events, and may be used to produce unit METL.
 - b. The disadvantage of using the WIDD home page is that the unit will have to manually input data into SATS and this will require more time and present the possibility for mistakes.
- P-4. Training strategies: In this MTP, we have attempted to define the minimum acceptable performance for units and sections in order to be considered "qualified". We have developed training strategies and Artillery Tables that support this concept.
- a. This minimum standard has been defined by units in the field and captured by developers at the field artillery school. Unit commanders may modify this standard and establish standards they feel better fit their specific mission.
 - b. We have developed many training strategies that support the artillery tables. We have a training strategy (CATS event) titled "Howitzer Section Tasks (06-TS-4001)". This event includes all the tasks listed in the section tables in appendix "B" and several other tasks that have been recommended for training because they are easily trained with the howitzer section tasks.
 - c. In addition to artillery table tasks for cannon and MLRS firing sections, CATs events have been developed for most sections including the battalion and battery FDC sections, platoon operations centers, RADAR sections, Met sections, and all staff sections. The artillery tables above section level have CATS events that support them just as the sections do.
 - d. The gunnery strategy we developed requires that all elements in the gunnery chain, (weapon system, POC, FDC, and FIST) all train in a stand-alone mode (walk) on the tasks they must perform without stimulus or input from other elements. In this mode the use of training devices such as DSTATS, SISTIM, or embedded training capabilities can and should be used.
 - e. In addition to CATS events that have been developed to support the artillery tables, USAFAS has developed training support packages (TSP) to assist units. You will find a complete list of these TSPs in chapter 4 along with instructions on how to obtain and use them.

P-5. Any comments or questions should be addressed to Henry Koelzer, Chief, Unit Training Branch, Warfighting, Integration, and Development Directorate, USAFAS.

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Helpful Web Sights

Reimer Data Repository <http://155.217.58.100/dr/>

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Army Unit CATS <ftp://ftp-dcst.monroe.army.mil/CATS/armycats.htm>

Army Training Support Center Help Desk * <http://www.atsc.army.mil/helpdesk/>

* For help with SATS or any other automated delivery system.

MISSION TRAINING PLAN

MISSION TRAINING PLAN FOR THE CONSOLIDATED CANNON BATTERY, M102, M119, M198, M109A5, M109A6

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ARTEP 6-037-30-MTP

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This publication supersedes ARTEP 6-037-30-MTP dated 15 May 1998.

CHAPTER 1

Unit Training

- 1-1. General: This mission training plan (MTP) provides the commander and leaders with guidance on how to train the key collective tasks of the unit. It also provides guidance for those that must evaluate a unit's performance (observer controllers/mentors/evaluators).
- 1-2. The specific details of the unit's training program depends on the following factors:
 - a. A Combined Arms Training Strategy.
 - b. Unit's mission-essential task list (METL).
 - c. Directives and guidance from higher headquarters.
 - d. Training priorities of the unit.
 - d. Availability of training resources and areas.
- 1-3. Supporting Material: This MTP describes a mission-oriented training program that must tie in with the next higher echelon's training program. The unit's training program consists of:
 - a. ARTEP/MTP: This Army training and evaluation program (ARTEP) indicates the relationship of the battery's training program to the battalion-training program, etc.
 - b. Soldier training publications (STPs) for the appropriate military occupational specialty (MOS) and skill levels (SLs).
 - c. Officer Education System (OES) manual for Officers or the Warrant Officers Education System (WOES).
- 1-4. Contents: This MTP is organized into six chapters and three appendices:
 - a. Chapter 1: Unit Training provides the explanation and organization of this MTP. This chapter explains how to use this MTP in establishing an effective training program. It also gives guidance for evaluating a unit's performance.
 - b. Chapter 2: Training Matrix, shows the relationship between Army Universal Task List (AUTL), BOS, and collective tasks. Also provided is the relationship between Collective and Individual supporting tasks.
 - c. Chapter 3: Combined Arms Training Strategy (CATS), training event matrices. This chapter gives an overview of CATS and how it affects unit training. It also tells users of this manual how to obtain CATS.
 - d. Chapter 4: Training Support Packages available. This chapter contains information about Training Support Packages available for units affected by this MTP. It also contains information on how to best use them and where to obtain them.
 - e. Chapter 5: Training and Evaluation Outlines, provides the training and evaluation criteria for all the tasks. Each task has a training and evaluation outline (T&EO) that identifies task steps, performance measures, and individual and leader tasks. Critical performance measures are identified with a "+". See section 1-4 "Evaluation" for explanation of critical

performance measures. Each T&EO is part of a mission and, in various combinations, composes training exercises.

- f. Chapter 6: External Evaluation, provides instructions for the planning, preparation, and execution of an external evaluation.
- g. Appendix A: Time and Accuracy Standards, describes fire mission standards both digital and manual (cannon only).
- h. Appendix B: Artillery Tables, lists those tasks that have been determined to be combat critical for specific levels of fire support (launcher/gun, platoon, battery, and battalion.) These tasks are directly associated with section qualification and certification. CATS events have been developed around these tables.
- g. Appendix C: OPFOR Tasks and Standards, provides enhanced realism during unit training.

1-5. Task Assessment:

- a. Each task has a standard that measures the successful performance of the task and task steps that give directions on the how-to of task performance. Furthermore, some steps have performance measures listed as well. In order to assess a task and give a "T, P, or U" rating, we have attempted to identify a criteria that satisfies the needs of the commanders and is as non-ambiguous as possible. Keeping in mind that the commander has the ultimate responsibility of rating a task, this method below represents one way to assess tasks. It cannot possibly take into account all possible situations and apply METT-TC to the assessment. The commander must do that and use his subjective opinion to give the final rating.
- b. In addition to the standard, several task steps/performance measures are listed for each task. Each task step/performance measure is graded either "GO" or "NO-GO". The question, "Does a unit have to perform each task step/performance measure successfully in order to receive a "Trained" for the task?" has always arisen. In the past, the answer according to the MTP manuals was "Yes". We know however, the practical answer is no. As long as the task standard is met, and critical steps, identified with a "+", are performed to standard the unit will successfully perform the task. If every step were required for successful completion of a task, the unit would never have a rating of "Practice" for any task. We have attempted to identify critical steps for each task. We may have overlooked some steps, and you may not agree with our evaluation of critical steps. We ask your help to identify critical steps during your review and use of this manual.
 - (1) A rating of "T" = All critical task steps/performance measures as indicated by a "+" are performed, 70% of those task steps not listed as critical are performed and the element attains the task standard. "T" (trained) means that the unit can successfully perform the task to standard. Only sustainment training is needed. The leader/OC or trainer judges task performance to be free of significant shortcomings. Practice on "T" tasks is designed to keep soldiers from losing proficiency.
 - (2) A rating of "P" = All critical task steps/performance measures as indicated by a "+" are performed, less than 70% of those task steps not listed as critical are performed and the task standard is met. "P" (practice) means that the unit can perform the task with some shortcomings. The shortcomings are not severe enough to require complete retraining. Only refresher training is required. It is possible to fail each critical task step and attain the rating of "P". The determining factor is the task standard. The task standard must be met to receive a rating of "P".

(3) A rating of "U" = The unit fails to attain the task standard. "U" (untrained) means that the unit cannot perform the task to standard. The element has failed one or more critical task step/performance measure. The determining factor is the failure of the unit to perform the task to the stated standard. It may be assumed that if a critical task step is failed, then the task standard cannot be met. The leader must prepare a comprehensive strategy to train all tasks not executed to standard.

- Any discrepancy you find in our analysis of critical task steps needs to come to the attention of the Field Artillery School (ATTN: Henry Koelzer koelzerh@doimex2.sill.army.mil) Phone DSN 639-3300/4050 CML 580-442-3300/4050

a. Units should strive to receive a "GO" on each performance measure. "NOGOs" should be brought out during AARs and Critiques. Units should train to eliminate "NO-GOs" from future evaluations.

f. Evaluations can be internal or external. Internal evaluations are conducted at all levels, and they must be inherent in all training. External evaluations are usually more formal and are normally conducted by a headquarters above the unit being evaluated. (See Chapter 6, External Evaluation.)

g. A critical weakness in training is the failure to evaluate each task every time it is executed. The ARTEP concept is based on simultaneous training and evaluation. Too often, leaders do not practice continuous evaluation. Often, soldiers or small units are trained to perform a task to standard; then later, when they execute that task as part of a training exercise, they execute it poorly or incorrectly and are not corrected. For this program to work, trainers and leaders must continually evaluate training as it is being executed.

h. Leaders should emphasize direct, on-the-spot evaluations. Correcting poor performance during individual or small group training is easy to do. In higher-level exercises, it is usually not feasible to do this with outside evaluators, but the opportunity for correction should not be overlooked. Plan AARs at frequent logical intervals during the exercises (usually after the completion of a major subordinate task). This is a proven technique that allows you to correct performance shortcomings while they are still fresh in everyone's mind and prevents reinforcement of bad habits.

i. FM 25-101 provides detailed instructions for conducting an AAR and detailed guidance on coaching and critiquing during training.

1-6. Training And Evaluation Outlines

a. General: Chapter 5 contains the collective task T&EOs for the unit. T&EOs are the foundation of the MTP and the collective training of the unit. T&EOs are training objectives (task, conditions, and standards) for the collective tasks, which support critical operations. The unit must analyze its METL to determine which T&EOs it must train. The unit must master those designated tasks to accomplish its critical mission.

b. Structure: The T&EOs in chapter 5 are listed at Table 5-1.

c. Format: Each T&EO contains the following items:

(1). Element: This identifies the unit or unit element(s) that performs the task.

- (2). Task: This describes the action to be performed by the unit.
 - (3). References: These are in parenthesis following the task number.
 - (4). Iteration: This is used to identify how many times the task was performed and evaluated during training. The "M" identifies when the task is performed in mission-oriented protective posture, level 4 (MOPP 4). Unless otherwise indicated, some iterations of all tasks are performed in MOPP 4.
- d. Commander/Leader Assessment: This is used by the unit leadership to assess the proficiency of the unit in performing the task to standard. Assessments are subjective in nature and use all available evaluation data and subunit leader input to develop an assessment of the organization's overall capability to accomplish the task. The following ratings are used:
- (1). T – Trained: The unit is trained and has demonstrated proficiency in accomplishing the task to standards.
 - (2) P - Needs practice: The unit needs to practice the task. Performance has demonstrated that the unit does not achieve standard without some difficulty or has failed to perform some task steps to standard.
 - (3) U – Untrained: The unit does not demonstrate an ability to achieve the task standard.
- f. Condition: A statement of the situation or environment in which the unit is to perform the collective task.
- g. Task standard: Performance criteria to successfully execute the task. This overall standard should be the focus of training. It should be understood by every soldier.
- h. Task Steps and Performance Measures: Task Steps are a list of actions that are required to successfully complete the task. These actions are further stated in terms of observable performance measures for evaluating training proficiency. The unit must be evaluated in the context of the current METT-TC conditions. Critical performance measures are identified with a "+". The unit must receive a "GO" on all performance measures identified with a "+".
- i. GO/NO-GO Column: This column is provided for annotating the element's performance of the task steps. Evaluate each performance measure for a task step and place an "X" in the appropriate column.
- j. Task Performance/Evaluation Summary Block: This block provides the trainer a means of recording the total number of task steps and performance measures evaluated and those evaluated as "GO." It provides the trainer a means to rate the unit's demonstrated performance as a "GO" or "NO-GO." It also provides the leader with a historical record for five training iterations.
- k. Supporting Individual Tasks: A listing of all supporting individual tasks required to perform the collective task correctly.
- l. OPFOR Tasks and Standards: Appendix C provides a list of generic OPFOR tasks. The standards specify overall OPFOR performance for each collective task.

- 1-6. Mission and Tasks: Because the field artillery supports all missions listed in the Army Tactical Mission list, (Offensive Actions, Defensive Actions, Stability Actions, Support Actions, Conduct Tactical Mission Tasks, Conduct Enabling Operations, and conduct Forcible Entry Operations), our mission list will fall directly in line with the tactical level of the Army Unit Task List. (AUTL). The AUTL is the language the Army is using to help understand the relationship between battlefield operation systems (BOS) and the supporting collective tasks among the BOS. Our existing missions fall directly in line with the AUTL.
- a. Move
 - b. Deploy
 - c. Acquire Targets
 - d. Deliver Fires
 - e. Perform Logistics
 - f. Coordinate Fire Support
 - g. Survive
 - h. Communicate
 - i. The missions we list are not really missions at all. They are however, categories of tasks. These categories allow commanders to easily locate collective tasks that will support their METL.
 - j. Collective training by its nature, is multi-echelon. A unit may train a specific category of tasks (Deploy/Maneuver) separately, however when performing collective training more than one category of tasks is almost always trained. I.e. Some Command and Control tasks will usually be performed during any training. Leaders are taking charge, making decisions, and informing subordinates of those decisions by some means of communications. Units must not forget the multi mission/AUTL level of training.
- 1-8. Principles of Training: This MTP is based on the training principles found in FM 25-100, Training the Force.
- 1-9. Training Strategy: The Army's Combined Arms Training Strategy (CATS), provides a template whereby units can develop and execute a training program for their critical missions. The purpose of CATS is to provide direction and guidance on how the Army trains and identifies the resources required to support that training. CATS provide the tools that enable the Army to focus and manage training in an integrated manner. Central to CATS is a series of proponent-generated unit and institutional strategies that describe the training and training resources required to train to standard.
- a. The unit training strategies central to CATS provide the commander with a descriptive "menu" for training. These strategies have been developed based on specific base TO&Es and do not reflect the MTOE that actually exists in the field. Commanders must massage these strategies to fit their specific situation and resources.
 - b. A unit's training strategy is composed of three separate training strategies. When integrated with the training tasks found in the MTP, they form a comprehensive and focused training strategy that allows the unit to train to standard. The elements of this unit's training strategy are:

- (1) Combined Arms Training Strategy. CATS provides a set of recommended training frequencies for key training events in a unit and depict those resources that are required to support the training events. This training includes not only those elements organic to a specific unit, but also units that work in coordination with that unit. I.e. The elements of the maneuver brigade that are supported by the brigade fire support element and the Forward Support Battalion or Aviation Lift Company habitually tasked to support the unit.
 - (2) Individual Training Strategy: The unit commander will develop a strategy to train individual tasks that are not trained at the institution and reinforce tasks taught at the institution. This strategy usually consists of some sort of "Prime Time Training" or "Sergeant's Time Training". The name given the training event is unimportant. The training time allocated is that time whereby the First Line Supervisor, meeting commanders guidance, trains his soldiers in those tasks required to accomplish those collective tasks that support the unit METL.
 - (3) Crew Training Strategy: This strategy allows for the section chief (first line supervisor) to train those METL tasks the commander has determined to be critical.
- c. When developing the unit's training plan, the commander identifies the training tasks from the MTP required to train his METL. Chapter 2 contains a matrix that lists tasks with an associated mission, however this may not reflect a complete or accurate list of tasks that a unit may need to accomplish its METL tasks.
- 1-10. Conducting Training: This MTP is designed to facilitate the planning, preparation, and conduct of unit training as explained in the FM 25-100, Training the Force, and FM 25-101, Battle Focused Training.
- a. The commander assigns the missions and tasks for training based on his METL and the training guidance from the next higher headquarters. Trainers must plan and execute training in support of this guidance.
 - b. The commander reviews the mission outline in Chapter 3 to determine whether the FTX and STXs provided will support or can be modified to support the senior commander's guidance. If they do not support the guidance or need to be modified, refer to the matrix in Chapter 2. The matrix provides a listing of collective tasks that must be mastered to perform the mission.
 - c. The commander prioritizes the tasks that need training.
 - d. The commander integrates training tasks into the training schedule by:
 - (1) Listing the tasks in the priority and frequency they need to be trained.
 - (2) Determining the amount of time required and how multiechelon training can be used for the best results.
 - (3) Determining where the training can take place.
 - (4) Determining who is responsible for what. The leader of the element being trained must always be involved.
 - (5) Organizing his requirements into blocks of time and training vehicles.

- e. The commander must approve the list of tasks to be trained and schedule them on the unit-training schedule.
- f. The commander must determine the equipment and supplies needed to conduct the training.
- g. The commander must keep subordinate leaders informed and oversee their training. The standards must be rigidly enforced.

1-11. Safety:

- a. Safety is a component of force protection. Commanders, leaders, and soldiers use risk assessment and management to tie force protection into the mission. Risk management assigns responsibility, institutionalizes the commander's review of operational safety, and leads to decision making at a level of command appropriate to the risk. The objective of safety is to help units protect combat power through accident prevention, which enables units to win fast and decisively with minimum losses. Safety is an integral part of all combat operations and begins with readiness. Readiness determines a unit's ability to perform its METL to standard. Readiness standards addressed during METL assessment are:
 - (1) Soldiers with the self-discipline to consistently perform tasks to standard.
 - (2) Leaders who are ready, willing, and able to enforce standards.
 - (3) Training that provides skills needed for performance to standard.
 - (3) Standards and procedures for task preference that are clear and practical.
 - (4) Support for task preference, including equipment, personnel, maintenance, facilities, and service.
- b. Risk management is a tool that addresses the root causes (readiness shortcomings) of accidents. It assists commanders and leaders in not only identifying what the next accident is going to be, but it also helps identify who will have the next accident. Risk management is a way to put more realism into training without paying the price in deaths, injuries, or damaged equipment. It also enhances soldier confidence in their ability to do their mission safely and in their leadership.
- c. Safety demands total chain of command involvement in planning, preparing, executing, and evaluating training. The chain of command responsibilities include--
 - (1) Commanders, who must:
 - (a) Seek optimum, not adequate, performance.
 - (b) Specify the risk acceptable to accomplish the mission.
 - (c) Select risk reductions provided by staff.
 - (d) Accept or reject residual risk, based on the benefit to be derived.
 - (e) Train and motivate leaders at all levels to effectively use

risk management concepts.

- (2) Staff, who must:
 - (a) Assist the commander in assessing risks and develop risk reduction options for training.
 - (b) Integrate risk controls in plans, orders, METL standards, and performance measures.
 - (c) Eliminate unnecessary safety restrictions that diminish training effectiveness.
 - (d) Assess safety performance during training; evaluate safety performance during after action reviews (AARs).
- (3) Subordinate leaders, who must:
 - (a) Apply consistently effective risk management concepts and methods to operations they lead.
 - (b) Report risk issues beyond their control or authority to their superiors.
- (4) Individual soldiers, who must:
 - (a) Report unsafe conditions, act, and correct the situation when possible.
 - (c) Establish a buddy system to keep a safety watch on one another.
 - (c) Take responsibility for personal safety.
 - (d) Work as a team member.
 - (e) Modify own risk behavior.
- e. Risk management is a five-step cyclic process that is easily integrated into the decision making process outlined in FM 101-5. The five steps are:
 - (1) Identify Hazards. Identify the most probable hazards for the missions.
 - (2) Assess Hazards. Analyze each hazard to determine the probability of its causing an accident and the probable effect of the accident. Identify control options to eliminate or reduce the hazard. The Army Standard Risk Assessment Matrix (Figure 1-1) is a tool for assessing hazards.
 - (3) Make Risk Decisions. Weigh the risk against the benefits of performing the operations. Accept no unnecessary risks and make any residual risk decisions at the proper level of command

		HAZARD PROBABILITY				
		Frequent	Probable	Occasional	Remote	Improbable
		A	B	C	D	E
CATASTROPHIC	I	EXTREMELY HIGH				
CRITICAL	II		HIGH			
MARGINAL	III		MEDIUM			
NEGLIGIBLE	IV			LOW		

Effect

Catastrophic Death or permanent total disability, system loss, major property damage.

Critical Permanent partial disability, temporary total disability in excess of 3 months, major system damage, significant property damage

Marginal Minor injury, lost workday accident, compensable injury or illness, minor system damage, minor property damage

Negligible First aid or minor supportive medical treatment, minor system impairment

Probability

Frequent Individual soldier/item Occurs often in career/equipment service life.
All soldiers exposed or item inventory Continuously experienced.

Probable Individual soldier/item Occurs several times in career/equipment service life.
All soldiers exposed or item inventory Occurs frequently.

Occasional Individual soldier/item Occurs sometime in career/equipment service life.
All soldiers exposed or item inventory Occurs sporadically, or several times in inventory service life.

Remote Individual soldier/item Possible to occur in career/equipment service life.
All soldiers exposed or item inventory Remote chance of occurrence; expected to occur sometime in inventory service life.

Improbable Individual soldier/item Can assume will not occur in career/equipment service life.
All soldiers exposed or item inventory Possible, but improbable; occurs only very rarely.

Risk Levels

Extremely High Loss of ability to accomplish mission.
High Significantly degrades mission capabilities in terms of required mission standards.
Medium Degrades mission capabilities in terms of required mission.
Low Little or no impact on mission accomplishment.

Figure 1-1. Risk Assessment Matrix:

- (4) Implement Controls. Integrate specific controls into operational plans (OPLANs), operation orders (OPORDs), standing operating procedures (SOPs) and rehearsals. Communicate controls to the individual soldier.
- (4) Supervise. Determine the effectiveness of controls in reducing the probability and effect of identified hazards to include follow up and after action review. Develop the lessons learned.

1-12. Environmental Protection: Protection of natural resources has continued to become an ever-increasing concern to the Army. It is the responsibility of all unit leaders to decrease, and if possible, eliminate damage to the environment when conducting training. Environmental risk management parallels safety risk management and is based on the same philosophy as safety risk management. Environmental risk management consists of the following steps:

- a. Identify Hazards: Identify potential sources for environmental degradation during analysis of mission, enemy, terrain, troops, and time available (METT-T) factors. This requires identification of environmental hazards. An environmental hazard is a condition with the potential for polluting air, soil, or water and or destroying cultural and historical artifacts.
- b. Assess the Hazard: Analyze potential severity of environmental degradation using environmental risk assessment matrixes (Figure 1-3). Severity of environmental degradation is considered when determining the potential effect an operation will have on the environment. The risk impact value is defined as an indicator of the severity of environmental degradation. Quantify the risk to the environment resulting from the operation as extremely high, high, medium, or low, using the environmental risk assessment matrixes.
- c. Make Environmental Risk Decisions. Make decisions and develop measures to reduce high environmental risks.
- d. Brief Chain of Command: Brief chain of command (to include installation environmental office, if applicable) on proposed plans and pertinent high-risk environmental matrixes. Risk decisions are made at a level of command that corresponds to the degree of risk.
- e. Implement Controls: Implement environmental protection measures by ntegrating them into plans, orders, SOPs, training performance standards, and rehearsals.
- f. Supervise: Supervise and enforce environmental protection standards.

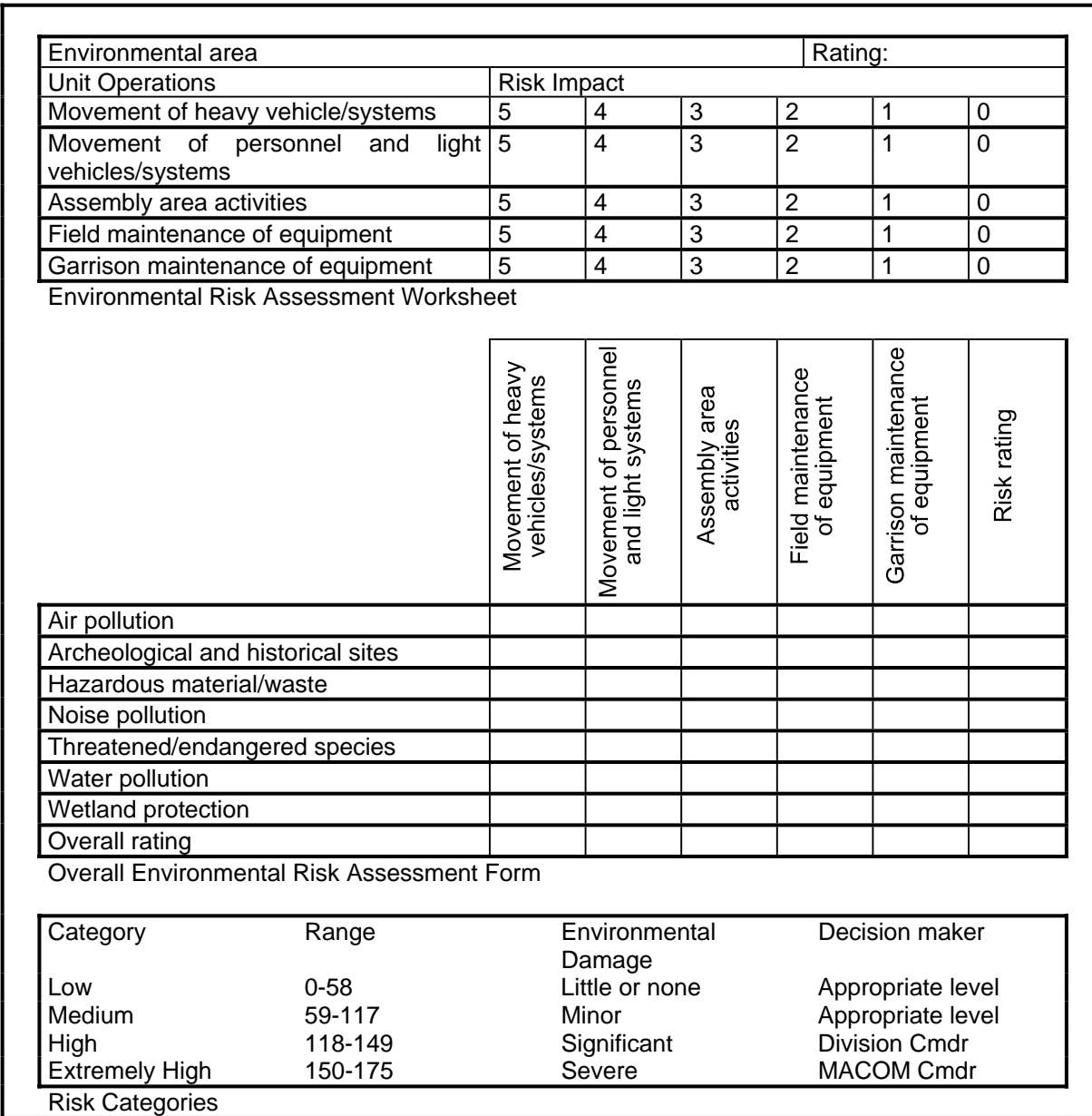


Figure 1-2. Environmental Risk Assessment Matrix

CHAPTER 2

Training Matrixes

2-1. General. The training Listing assists the commander in planning the training of his unit's personnel. The mission identification table listed below (Figure 2-1) provides mission identification for the unit.

Mission Identification Table	
Mission Title	
	• COMMUNICATE
	• DELIVER FIRES
	• DEPLOY
• MAINTAIN AND RESUPPLY	• MOVE
	• SURVIVE

Figure 2-1. Mission Identification Table.

2-2. Mission to Collective Tasks Listing. This listing (Figure 2-2), identifies the mission and its supporting collective tasks. The tasks are listed under the appropriate BOS which are indicated by an asterisk in the listing. The BOS used in this listing are defined in TRADOC Pam 11-9. A specific mission is trained by identifying collective tasks in the vertical column for the mission. Based on the proficiency of the unit, training is focused on operational weaknesses.

MISSION: COMMUNICATE

Collective Task(s)	(06-2-A000.06-C000)	ESTABLISH AND MAINTAIN COMMUNICATIONS
	(06-2-A005)	PROVIDE ORGANIZATIONAL COMMUNICATIONS/ELECTRONICS MAINTENANCE SUPPORT
	(06-2-A078)	PERFORM OPERATORS MAINTAINENCE ON COMMUNICATIONS EQUIPMENT
	(11-2-C302.06-C001)	ESTABLISH AND OPERATE A SINGLE-CHANNEL VOICE RADIO NET
	(11-5-0102.06-A000)	INSTALL /OPERATE/MAINTAIN A SINGLE CHANNEL VOICE RADIO STATION
	(11-5-1102.06-A001)	INSTALL/OPERATE/MAINTAIN A SINGLE CHANNEL GROUND AND AIRBORNE RADIO SYSTEM (SINGARS) FREQUENCY HOPPING (FH) NET

MISSION: DELIVER FIRES

Collective Task(s)	(06-2-E001)	CONDUCT AIRBORNE OPERATIONS
	(06-2-E002)	CONDUCT AIR ASSAULT OPERATIONS
	(06-2-E003)	CONDUCT AN AIR ASSAULT ARTILLERY RAID
	(06-2-W107)	CONDUCT AN ARTILLERY RAID
	(06-3-C001)	DIRECT AND CONTROL FIRING BATTERY/PLATOON OPERATIONS (CANNON)
	(06-3-C002)	CONDUCT EMERGENCY MISSIONS
	(06-3-C011)	PERFORM HASTY SURVEY

- (06-3-G004) ESTABLISH FIRING CAPABILITY AT THE FIRING POSITION (PALADIN UNITS)
- (06-4-C002) DETERMINE FIRING DATA
- (06-4-C003) CONDUCT FIRE MISSIONS
- (06-4-C004) MANAGE AND SUBMIT HOWITZER SECTION REPORTS
- (06-4-C008) STORE AMMUNITION (HOWITZER SECTION)
- (06-4-C009) UNLOAD THE HOWITZER
- (06-4-C012) PREPARE HOWITZER FOR CONDUCT OF FIRE MISSIONS (NON-PALADIN)
- (06-4-C015) CONDUCT DIRECT FIRE
- (06-4-C017) ESTABLISH AZIMUTH BY SIMULTANEOUS OBSERVATION
- (06-4-C018) ASSUME DIRECTIONAL CONTROL
- (06-4-C019) ESTABLISH AZIMUTH BY ASTRONOMIC OBSERVATION
- (06-4-G005) PERFORM FIRE MISSIONS IN DEGRADED MODE ON THE M109A6 PALADIN HOWITZER.
- (06-4-G009) PROCESS FIRE MISSIONS ON THE M109A6 PALADIN HOWITZER
- (06-4-V001) UPDATE PADS BY USING ASSUMED DATA
- (06-4-V002) ESTABLISH SURVEY CONTROL BY THREE POINT RESECTION
- (06-4-V003) USE PADS TO EXTEND SURVEY CONTROL
- (06-4-V004) SUBMIT SURVEY REPORTS AND COMBAT INFORMATION
- (06-4-V005) PLAN AND EXECUTE SURVEY OPERATIONS
- (06-4-V006) ESTABLISH A DECLINATION STATION
- (06-4-V007) EXTEND AZIMUTH BY DIRECTIONAL TRAVERSE
- (06-5-A008) CONDUCT FIRE MISSIONS (FIRE SUPPORT TEAM)

MISSION: DEPLOY

- Collective Task(s)** (06-2-A066) CONDUCT BATTERY PRE/REDEPLOYMENT OPERATIONS

MISSION: MAINTAIN AND RESUPPLY

- Collective Task(s)** (06-2-A005) PROVIDE ORGANIZATIONAL COMMUNICATIONS/ELECTRONICS MAINTENANCE SUPPORT
- (06-2-A007) COORDINATE COMBAT SERVICE SUPPORT FOR A FIELD ARTILLERY BATTERY
- (06-2-A078) PERFORM OPERATORS MAINTENANCE ON COMMUNICATIONS EQUIPMENT
- (06-4-A001) MANAGE MAINTENANCE RECORDS AND SUBMIT REPORTS
- (06-4-A002) ESTABLISH AN ORGANIZATIONAL MAINTENANCE FACILITY
- (06-4-A003) MAINTAIN PETROLEUM, OILS, AND LUBRICANTS
- (06-4-C006) TRANSPORT AMMUNITION (FIRING BATTERY)
- (06-4-C010) DRAW CANNON AMMUNITION (BATTERY AMMUNITION SECTION)
- (06-4-C011) PREPARE AMMUNITION FOR AIR TRANSPORT
- (10-2-C230.06-A001) PROVIDE UNIT SUPPLY SUPPORT
- (12-2-C321.06-A007) MAINTAIN COMPANY/BATTERY STRENGTH
- (12-3-C216.06-A008) MAINTAIN PLATOON STRENGTH
- (43-2-C322.06-A000) PERFORM UNIT LEVEL MAINTENANCE
- (43-2-C323.06-A001) MANAGE UNIT MAINTENANCE OPERATIONS

MISSION: MOVE

Collective Task(s) (03-3-C208.06-A006)	CROSS A RADIOLOGICALLY CONTAMINATED AREA
(03-3-C226.06-A011)	CROSS CHEMICALLY CONTAMINATED AREA
(06-2-A003)	OCCUPY A TACTICAL ASSEMBLY AREA
(06-2-A022)	DEFEND AGAINST AMBUSH
(06-2-C010)	PERFORM RECONNAISSANCE OPERATIONS
(06-2-E006)	PREPARE FOR AIR MOVEMENT
(06-2-G010)	PERFORM RECONNAISSANCE OPERATIONS (PALADIN UNITS)
(06-3-A004)	COMMAND AND CONTROL BATTERY/PLATOON/SECTION MOVEMENT OPERATIONS
(06-3-B003)	CONDUCT OCCUPATION OF POSITION AREA (NON PALADIN UNITS)
(06-3-C013)	MOVE A CANNON BATTERY OR PLATOON

MISSION: SURVIVE

Collective Task(s) (03-2-C310.06-0000)	CONDUCT A CHEMICAL SURVEY
(03-2-C312.06-A001)	CONDUCT THOROUGH DECONTAMINATION OPERATIONS
(03-3-C201.06-A002)	PREPARE FOR OPERATIONS UNDER NBC CONDITIONS
(03-3-C202.06-A003)	PREPARE FOR A CHEMICAL ATTACK
(03-3-C203.06-A004)	RESPOND TO A CHEMICAL ATTACK
(03-3-C205.06-A001)	PREPARE FOR A FRIENDLY NUCLEAR STRIKE
(03-3-C206.06-A005)	PREPARE FOR NUCLEAR ATTACK
(03-3-C208.06-A006)	CROSS A RADIOLOGICALLY CONTAMINATED AREA
(03-3-C222.06-A007)	RESPOND TO THE RESIDUAL EFFECTS OF A NUCLEAR ATTACK
(03-3-C223.06-A008)	RESPOND TO THE INITIAL EFFECTS OF A NUCLEAR ATTACK
(03-3-C224.06-A009)	CONDUCT OPERATIONAL DECONTAMINATION
(03-3-C225.06-A010)	CONDUCT CHEMICAL RECONNAISSANCE
(03-3-C226.06-A011)	CROSS CHEMICALLY CONTAMINATED AREA
(06-2-A002)	REINFORCE AND RESTORE THE UNIT PERIMETER
(06-2-A022)	DEFEND AGAINST AMBUSH
(06-3-A000)	PLAN AND CONDUCT DEFENSE AND SECURITY OF THE BATTERY/PLATOON AREA AND MATERIAL
(06-4-G000)	PERFORM A SURVIVABILITY MOVE (PALADIN ONLY)
(06-4-V004)	SUBMIT SURVEY REPORTS AND COMBAT INFORMATION
(06-5-A000)	PERFORM OBSERVATION AND SURVEILLANCE
(06-5-A001)	PERFORM CRATER ANALYSIS OPERATIONS
(06-5-A002)	PERFORM ANTIARMOR OPERATIONS
(06-5-A003)	PERFORM DESTRUCTION OF MATERIAL AND RECORDS
(08-2-0003.06-A001)	TREAT CASUALTIES
(08-2-C316.06-A006)	TRANSPORT CASUALTIES
(08-2-R315.06-A007)	PERFORM FIELD SANITATION FUNCTIONS
(10-2-C002.06-A000)	PERFORM UNIT GRAVES REGISTRATION FUNCTIONS
(12-1-C401.06-A000)	REDUCE BATTLEFIELD STRESS
(19-2-C702.06-A000)	HANDLE ENEMY PRISONERS OF WAR
(19-3-3105.06-A001)	PROCESS CAPTURED DOCUMENTS AND EQUIPMENT

- (44-1-C220.06-A000) USE PASSIVE AIR DEFENSE MEASURES
- (44-1-C221.06-A001) TAKE ACTIVE COMBINED ARMS AIR DEFENSE AGAINST HOSTILE AIR PLATFORMS
- (71-3-R231.06-0001) PERFORM RISK MANAGEMENT PROCEDURES

Figure 2-2. Collective Task to Missions.

2-3. Supporting References to Collective Tasks Listing. This listing (Figure 2-3), identifies references that provide additional information on each of the Collective Tasks.

BOS: Develop Intelligence

- Collective Task:** 06-4-V004 SUBMIT SURVEY REPORTS AND COMBAT INFORMATION
 - Reference(s)** FM 6-2 Field Artillery Survey. 23 September 1993.
- Collective Task:** 06-5-A000 PERFORM OBSERVATION AND SURVEILLANCE
 - Reference(s)** FM 6-50 Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
- Collective Task:** 06-5-A001 PERFORM CRATER ANALYSIS OPERATIONS
 - Reference(s)** FM 6-121 Tactics, Techniques, and Procedures for Field Artillery Target Acquisition.
- Collective Task:** 19-3-3105.06-A001 PROCESS CAPTURED DOCUMENTS AND EQUIPMENT
 - Reference(s)** FM 19-40 Enemy Prisoners of War, Civilian Internees and Detained Persons, 27 February 1976

BOS: Deploy/Conduct Maneuver

- Collective Task:** 06-2-A003 OCCUPY A TACTICAL ASSEMBLY AREA
 - Reference(s)** FM 6-50 Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
 - FM 6-60 Tactics, Techniques, and Procedures for the Multiple Launch Rocket System (MLRS) Operations
 - FM 7-10 (HTF) The Infantry Rifle Company (Infantry, Airborne, Air Assault, Ranger) (How to Fight). 8 January 1982.
- Collective Task:** 06-2-A066 CONDUCT BATTERY PRE/REDEPLOYMENT OPERATIONS
 - Reference(s)** AR 220-10 Preparations for Oversea Movement of Units (POM) 220-45 Duty Rosters
 - FM 6-20-1 Tactics, Techniques, and Procedures for the Field Artillery Cannon Battalion. 29 November 1990.

Collective Task:	06-2-E001	CONDUCT AIRBORNE OPERATIONS
Reference(s)	FM 100-27	US Army/US Air Force Doctrine for Joint Airborne and Tactical Airlift Operations
	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 90-26	Airborne Operations
	FM 90-4	Air Assault Operations
	TM 9-1015-234-10	Operator's Maintenance Manual for Howitzer, Light, Towed: 105-mm, M102 (NSN 1015-00-086-8164)
	TM 9-1015-252-10	Operator's Maintenance Manual for Howitzer, Light, Towed: 105mm, M119
Collective Task:	06-2-E002	CONDUCT AIR ASSAULT OPERATIONS
Reference(s)	FM 55-450-1	Army Helicopter External Load Operations. 3 October 1988.
	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 90-4	Air Assault Operations
	TM 9-1015-234-10	Operator's Maintenance Manual for Howitzer, Light, Towed: 105-mm, M102 (NSN 1015-00-086-8164)
	TM 9-1015-252-10	Operator's Maintenance Manual for Howitzer, Light, Towed: 105mm, M119
Collective Task:	06-2-E006	PREPARE FOR AIR MOVEMENT
Reference(s)	FM 55-450-1	Army Helicopter External Load Operations. 3 October 1988.
Collective Task:	06-2-G010	PERFORM RECONNAISSANCE OPERATIONS (PALADIN UNITS)
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-70	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	ST 6-50-60	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
Collective Task:	06-3-B003	CONDUCT OCCUPATION OF POSITION AREA (NON PALADIN UNITS)
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
Collective Task:	06-3-C013	MOVE A CANNON BATTERY OR PLATOON

Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-70	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	ST 6-50-60	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	STP 06-1001	FIELD ARTILLERY OFFICER BASIC TASKS
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-II-MQS	OFFICER ADVANCED COMMON TASKS
	STP 6-13B1-SM	Cannon Crewmember
	STP 6-13B24-SM-TG	Cannon Crewmember
	STP 6-13II-MQS	Military Qualifications Standards II, Field Artillery Branch (13), Company Grade Officer's Manual. 25 March 1991.
Collective Task:	06-4-G000	PERFORM A SURVIVABILITY MOVE (PALADIN ONLY)
Reference(s)	FM 6-70	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	ST 6-50-60	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
Collective Task:	06-5-A006	ESTABLISH AN OBSERVATION POST (FIRE SUPPORT TEAM)
Reference(s)	FM 6-30	Tactics, Techniques, and Procedures for Observed Fire, 16 July 1991

BOS: Employ Firepower

Collective Task:	06-1-A048	PLAN FIRES IN SUPPORT OF MANEUVER OPERATIONS
Reference(s)	FM 6-20	Fire Support in the AirLand Battle. 17 May 1988.
	FM 6-20-20	Tactics, Techniques, and Procedures for Fire Support at Battalion Task Force and Below, 27 December 1991
	FM 6-20-40	TTP for Fire Support for Brigade Operations
	FM 6-20-50	Tactics, Techniques, and Procedures for Fire Support for Brigade Operations (Light), 5 January 1990
	FM 6-71	Tactics, Techniques and Procedures for Fire Support for the Combined Arms Commander

Collective Task:	06-1-A050	COORDINATE, DIRECT, AND ADJUST OTHER FIRE SUPPORT ASSETS
Reference(s)	FM 6-20-10	Tactics, Techniques and Procedures for the Targeting Process, 8 May 1996
	FM 6-30	Tactics, Techniques, and Procedures for Observed Fire, 16 July 1991
Collective Task:	06-2-E003	CONDUCT AN AIR ASSAULT ARTILLERY RAID
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 90-4	Air Assault Operations
	TM 9-1015-234-10	Operator's Maintenance Manual for Howitzer, Light, Towed: 105-mm, M102 (NSN 1015-00-086-8164)
	TM 9-1015-252-10	Operator's Maintenance Manual for Howitzer, Light, Towed: 105mm, M119
Collective Task:	06-2-W107	CONDUCT AN ARTILLERY RAID
Reference(s)	FM 6-40	Tactics, Techniques, and Procedures for Field Artillery Manual Cannon Gunnery,
	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
Collective Task:	06-3-C002	CONDUCT EMERGENCY MISSIONS
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-70	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	ST 6-50-60	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
Collective Task:	06-3-C011	PERFORM HASTY SURVEY
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
Collective Task:	06-3-G004	ESTABLISH FIRING CAPABILITY AT THE FIRING POSITION (PALADIN UNITS)
Reference(s)	FM 6-70	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	ST 6-50-60	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.

Collective Task:	06-4-C002	DETERMINE FIRING DATA
Reference(s)	FM 6-40	Tactics, Techniques, and Procedures for Field Artillery Manual Cannon Gunnery,
Collective Task:	06-4-C003	CONDUCT FIRE MISSIONS
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	ST 6-50-60	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	TM 9-1015-234-10	Operator's Maintenance Manual for Howitzer, Light, Towed: 105-mm, M102 (NSN 1015-00-086-8164)
	TM 9-1015-252-10	Operator's Maintenance Manual for Howitzer, Light, Towed: 105mm, M119
	TM 9-1025-211-10	Operator's Manual (Crew) for Howitzer, Medium, Towed: 155-mm, M198.
	TM 9-2350-311-10	Operator's Manual for Howitzer, Medium, Self- Propelled, 155-mm M109A2 (NSN 2350-01-031-0586) and 155-mm M109A3 (2350-01-031-8851)
Collective Task:	06-4-C004	MANAGE AND SUBMIT HOWITZER SECTION REPORTS
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-70	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	ST 6-50-60	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
Collective Task:	06-4-C009	UNLOAD THE HOWITZER
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-70	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	ST 6-50-60	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	TM 9-1015-234-10	Operator's Maintenance Manual for Howitzer, Light, Towed: 105-mm, M102 (NSN 1015-00-086-8164)
	TM 9-1025-211-10	Operator's Manual (Crew) for Howitzer, Medium, Towed: 155-mm, M198.
	TM 9-2350-311-10	Operator's Manual for Howitzer, Medium, Self- Propelled, 155-mm M109A2 (NSN 2350-01-031-0586) and 155-mm M109A3 (2350-01-031-8851)

	TM 9-2350-314-10	Operators Manual for Howitzer Medium Self Propelled: 155mm, M109A6 (NSN 2350-01-305-0028)
Collective Task:	06-4-C012	PREPARE HOWITZER FOR CONDUCT OF FIRE MISSIONS (NON-PALADIN)
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
Collective Task:	06-4-C015	CONDUCT DIRECT FIRE
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-70	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	ST 6-50-60	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	TM 9-1015-234-10	Operator's Maintenance Manual for Howitzer, Light, Towed: 105-mm, M102 (NSN 1015-00-086-8164)
	TM 9-1015-252-10	Operator's Maintenance Manual for Howitzer, Light, Towed: 105mm, M119
Collective Task:	06-4-C017	ESTABLISH AZIMUTH BY SIMULTANEOUS OBSERVATION
Reference(s)	FM 6-2	Field Artillery Survey. 23 September 1993.
	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
Collective Task:	06-4-C018	ASSUME DIRECTIONAL CONTROL
Reference(s)	FM 6-2	Field Artillery Survey. 23 September 1993.
Collective Task:	06-4-C019	ESTABLISH AZIMUTH BY ASTRONOMIC OBSERVATION
Reference(s)	FM 6-2	Field Artillery Survey. 23 September 1993.
Collective Task:	06-4-G005	PERFORM FIRE MISSIONS IN DEGRADED MODE ON THE M109A6 PALADIN HOWITZER.
Reference(s)	FM 6-70	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
Collective Task:	06-4-G009	PROCESS FIRE MISSIONS ON THE M109A6 PALADIN HOWITZER
Reference(s)	FM 6-70	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
Collective Task:	06-4-V001	UPDATE PADS BY USING ASSUMED DATA
Reference(s)	FM 6-2	Field Artillery Survey. 23 September 1993.

Collective Task:	06-4-V002	ESTABLISH SURVEY CONTROL BY THREE POINT RESECTION
Reference(s)	FM 6-2	Field Artillery Survey. 23 September 1993.
Collective Task:	06-4-V003	USE PADS TO EXTEND SURVEY CONTROL
Reference(s)	FM 6-2	Field Artillery Survey. 23 September 1993.
Collective Task:	06-4-V005	PLAN AND EXECUTE SURVEY OPERATIONS
Reference(s)	FM 6-2	Field Artillery Survey. 23 September 1993.
Collective Task:	06-4-V006	ESTABLISH A DECLINATION STATION
Reference(s)	FM 21-26	Map Reading And Land Navigation, 30 September 1987.
	FM 6-2	Field Artillery Survey. 23 September 1993.
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 6-82C14-SM-TG	Field Artillery Surveyor
Collective Task:	06-4-V007	EXTEND AZIMUTH BY DIRECTIONAL TRAVERSE
Reference(s)	FM 6-2	Field Artillery Survey. 23 September 1993.
Collective Task:	06-5-A008	CONDUCT FIRE MISSIONS (FIRE SUPPORT TEAM)
Reference(s)	FM 6-30	Tactics, Techniques, and Procedures for Observed Fire, 16 July 1991
Collective Task:	06-5-A047	ESTABLISH FIRE SUPPORT OPERATIONS
Reference(s)	FM 6-20-20	Tactics, Techniques, and Procedures for Fire Support at Battalion Task Force and Below, 27 December 1991
	FM 6-30	Tactics, Techniques, and Procedures for Observed Fire, 16 July 1991
	FM 6-71	Tactics, Techniques and Procedures for Fire Support for the Combined Arms Commander
Collective Task:	06-5-C040	COORDINATE AND CONTROL FIRE PLAN EXECUTION
Reference(s)	FM 6-20	Fire Support in the AirLand Battle. 17 May 1988.
	FM 6-30	Tactics, Techniques, and Procedures for Observed Fire, 16 July 1991
	FM 6-71	Tactics, Techniques and Procedures for Fire Support for the Combined Arms Commander

BOS: Protect the Force

Collective Task:	03-2-C310.06-0000	CONDUCT A CHEMICAL SURVEY
Reference(s)	FM 3-3	NBC Contamination Avoidance, 30 September 1986.
	FM 3-4	NBC Protection, 21 October 1985.
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-II-MQS	OFFICER ADVANCED COMMON TASKS
	STP 21-I-MQS	OFFICER BASIC COMMON TASKS
Collective Task:	03-2-C312.06-A001	CONDUCT THOROUGH DECONTAMINATION OPERATIONS
Reference(s)	FM 3-3	NBC Contamination Avoidance, 30 September 1986.
	FM 3-4	NBC Protection, 21 October 1985.
	FM 3-5	NBC Decontamination, 24 June 1985.
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-II-MQS	OFFICER ADVANCED COMMON TASKS
Collective Task:	03-3-C201.06-A002	PREPARE FOR OPERATIONS UNDER NBC CONDITIONS
Reference(s)	FM 3-3	NBC Contamination Avoidance, 30 September 1986.
	FM 3-4	NBC Protection, 21 October 1985.
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-II-MQS	OFFICER ADVANCED COMMON TASKS
	STP 6-13II-MQS	Military Qualifications Standards II, Field Artillery Branch (13), Company Grade Officer's Manual. 25 March 1991.
Collective Task:	03-3-C202.06-A003	PREPARE FOR A CHEMICAL ATTACK
Reference(s)	FM 3-100	NBC Operations, 17 September 1985
	FM 3-3	NBC Contamination Avoidance, 30 September 1986.
	FM 3-4	NBC Protection, 21 October 1985.

	FM 3-5	NBC Decontamination, 24 June 1985.
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-II-MQS	OFFICER ADVANCED COMMON TASKS
	STP 21-I-MQS	OFFICER BASIC COMMON TASKS
Collective Task:	03-3-C203.06-A004	RESPOND TO A CHEMICAL ATTACK
Reference(s)	FM 3-100	NBC Operations, 17 September 1985
	FM 3-3	NBC Contamination Avoidance, 30 September 1986.
	FM 3-4	NBC Protection, 21 October 1985.
	FM 3-5	NBC Decontamination, 24 June 1985.
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-II-MQS	OFFICER ADVANCED COMMON TASKS
	STP 21-I-MQS	OFFICER BASIC COMMON TASKS
Collective Task:	03-3-C205.06-A001	PREPARE FOR A FRIENDLY NUCLEAR STRIKE
Reference(s)	FM 2104/189	Friendly Nuclear Strike Warning to Armed Forces Operating on Land.
	FM 3-3	NBC Contamination Avoidance, 30 September 1986.
	FM 3-4	NBC Protection, 21 October 1985.
	FM 6-20-1	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battalion. 29 November 1990.
	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-60	Tactics, Techniques, and Procedures for the Multiple Launch Rocket System (MLRS) Operations
Collective Task:	03-3-C206.06-A005	PREPARE FOR NUCLEAR ATTACK
Reference(s)	FM 3-3	NBC Contamination Avoidance, 30 September 1986.
	FM 3-4	NBC Protection, 21 October 1985.
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994

	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-II-MQS	OFFICER ADVANCED COMMON TASKS
	STP 21-I-MQS	OFFICER BASIC COMMON TASKS
Collective Task:	03-3-C208.06-A006	CROSS A RADIOLOGICALLY CONTAMINATED AREA
Reference(s)	FM 3-3	NBC Contamination Avoidance, 30 September 1986.
	FM 3-4	NBC Protection, 21 October 1985.
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-II-MQS	OFFICER ADVANCED COMMON TASKS
	STP 21-I-MQS	OFFICER BASIC COMMON TASKS
Collective Task:	03-3-C222.06-A007 ATTACK	RESPOND TO THE RESIDUAL EFFECTS OF A NUCLEAR
Reference(s)	FM 3-100	NBC Operations, 17 September 1985
	FM 3-3	NBC Contamination Avoidance, 30 September 1986.
	FM 3-4	NBC Protection, 21 October 1985.
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-II-MQS	OFFICER ADVANCED COMMON TASKS
Collective Task:	03-3-C223.06-A008 ATTACK	RESPOND TO THE INITIAL EFFECTS OF A NUCLEAR
Reference(s)	FM 3-100	NBC Operations, 17 September 1985
	FM 3-3	NBC Contamination Avoidance, 30 September 1986.
	FM 3-4	NBC Protection, 21 October 1985.
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-II-MQS	OFFICER ADVANCED COMMON TASKS
	STP 21-I-MQS	OFFICER BASIC COMMON TASKS
Collective Task:	03-3-C224.06-A009	CONDUCT OPERATIONAL DECONTAMINATION
Reference(s)	FM 3-5	NBC Decontamination, 24 June 1985.
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994

	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
Collective Task:	03-3-C225.06-A010	CONDUCT CHEMICAL RECONNAISSANCE
Reference(s)	FM 3-19	NBC Reconnaissance
	FM 3-3	NBC Contamination Avoidance, 30 September 1986.
	FM 3-6	Field Behavior of NBC Agents (Including Smoke & Incendiaries), 3 November 1986.
	FM 3-7	NBC Handbook
	FM 3-8	Chemical Reference Handbook
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-II-MQS	OFFICER ADVANCED COMMON TASKS
	STP 21-I-MQS	OFFICER BASIC COMMON TASKS
Collective Task:	03-3-C226.06-A011	CROSS CHEMICALLY CONTAMINATED AREA
Reference(s)	FM 3-3	NBC Contamination Avoidance, 30 September 1986.
	FM 3-4	NBC Protection, 21 October 1985.
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-II-MQS	OFFICER ADVANCED COMMON TASKS
	STP 21-I-MQS	OFFICER BASIC COMMON TASKS
Collective Task:	06-2-A002	REINFORCE AND RESTORE THE UNIT PERIMETER
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-60	Tactics, Techniques, and Procedures for the Multiple Launch Rocket System (MLRS) Operations
Collective Task:	06-2-A022	DEFEND AGAINST AMBUSH
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-60	Tactics, Techniques, and Procedures for the Multiple Launch Rocket System (MLRS) Operations

Collective Task:	06-2-C010	PERFORM RECONNAISSANCE OPERATIONS
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-70	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	ST 6-50-60	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
Collective Task:	06-3-A000	PLAN AND CONDUCT DEFENSE AND SECURITY OF THE BATTERY/PLATOON AREA AND MATERIAL
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-60	Tactics, Techniques, and Procedures for the Multiple Launch Rocket System (MLRS) Operations
Collective Task:	06-5-A002	PERFORM ANTIARMOR OPERATIONS
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-60	Tactics, Techniques, and Procedures for the Multiple Launch Rocket System (MLRS) Operations
Collective Task:	06-5-A003	PERFORM DESTRUCTION OF MATERIAL AND RECORDS
Reference(s)	FM 5-250	Explosives and Demolitions. 15 June 1992.
	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 9-13	Ammunition Handbook. 4 November 1986.
	TB 380-41 (O)	Procedures for Safeguarding, Accounting, and Supply Control of COMSEC Material (O), 10 October 1994
Collective Task:	08-2-0003.06-A001	TREAT CASUALTIES
Reference(s)	AR 600-8-1	Army Casualty Reporting And Memorial Affairs And Line Of Duty Investigations
	FM 21-11	First Aid For Soldiers 27 October 1988.
	FM 3-4	NBC Protection, 21 October 1985.
	FM 3-5	NBC Decontamination, 24 June 1985.
	FM 8-10-6	Tactics, Techniques, and Procedures for Medical Evacuation in a Theater of Operations
	FM 8-230	Medical Specialist

	FM 8-285	Treatment of Chemical Agent Casualties and Contaminated Military Chemical Injuries
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-I-MQS	OFFICER BASIC COMMON TASKS
	STP 8-91B15-SM-TG	Soldiers Manual and Trainer's Guide for MOS 91B, Skill Levels 1-5
Collective Task:	08-2-C316.06-A006	TRANSPORT CASUALTIES
Reference(s)	AR 600-8-1	Army Casualty Reporting And Memorial Affairs And Line Of Duty Investigations
	FM 100-5	Operations
	FM 12-6	Personnel Doctrine
	FM 21-11	First Aid For Soldiers 27 October 1988.
	FM 3-4	NBC Protection, 21 October 1985.
	FM 3-5	NBC Decontamination, 24 June 1985.
	FM 57-38	Pathfinder Operations
	FM 8-10-6	Tactics, Techniques, and Procedures for Medical Evacuation in a Theater of Operations
	FM 8-285	Treatment of Chemical Agent Casualties and Contaminated Military Chemical Injuries
	FM 8-55	Planning for Health Service Support
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-II-MQS	OFFICER ADVANCED COMMON TASKS
	STP 21-I-MQS	OFFICER BASIC COMMON TASKS
Collective Task:	08-2-R315.06-A007	PERFORM FIELD SANITATION FUNCTIONS
Reference(s)	AR 385-10	Army Safety Program. 23 May 1988.
	AR 40-5	Preventive Medicine, 1 June 1985
	FM 10-52	Water Supply in Theater of Operations
	FM 21-10	Field Hygiene And Sanitation
	FM 21-10-1	Unit Field Sanitation Team, 11 October 1989.

	FM 3-4	NBC Protection, 21 October 1985.
	FM 3-5	NBC Decontamination, 24 June 1985.
	FM 8-10	Health Service Support in a Theater of Operations. 1 March 1991.
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-II-MQS	OFFICER ADVANCED COMMON TASKS
Collective Task:	12-1-C401.06-A000	REDUCE BATTLEFIELD STRESS
Reference(s)	FM 22-9	Soldier Performance in Continuous Operations, 8 December 1983
	FM 26-2	Management of Stress in Army Operations, 29 August 1986
Collective Task:	19-2-C702.06-A000	HANDLE ENEMY PRISONERS OF WAR
Reference(s)	FM 19-40	Enemy Prisoners of War, Civilian Internees and Detained Persons, 27 February 1976
Collective Task:	44-1-C220.06-A000	USE PASSIVE AIR DEFENSE MEASURES
Reference(s)	FM 44-8	Small Unit Self-Defense Against Air Attack, 30 December 1981.
Collective Task:	44-1-C221.06-A001	TAKE ACTIVE COMBINED ARMS AIR DEFENSE AGAINST HOSTILE AIR PLATFORMS
Reference(s)	FM 44-8	Small Unit Self-Defense Against Air Attack, 30 December 1981.
	FM 44-80	Visual Aircraft Recognition
	STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1, 1 October 1994
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	STP 21-I-MQS	OFFICER BASIC COMMON TASKS
Collective Task:	71-3-R231.06-0001	PERFORM RISK MANAGEMENT PROCEDURES
Reference(s)	6-FSCATT	Fire Support Combined Arms Tactical Trainer
	AR 385-10	Army Safety Program. 23 May 1988.
	DA PAM 385-1	Unit Safety Management
	FM 8-10	Health Service Support in a Theater of Operations. 1 March 1991.

BOS: Perform CSS and Sustainment

Collective Task:	06-2-A005	PROVIDE ORGANIZATIONAL COMMUNICATIONS/ELECTRONICS MAINTENANCE SUPPORT
Reference(s)	FM 29-2	Organizational Maintenance Operations
Collective Task:	06-2-A007	COORDINATE COMBAT SERVICE SUPPORT FOR A FIELD ARTILLERY BATTERY
Reference(s)	FM 10-1	Quartermaster Principles
	FM 6-20	Fire Support in the AirLand Battle. 17 May 1988.
	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-60	Tactics, Techniques, and Procedures for the Multiple Launch Rocket System (MLRS) Operations
Collective Task:	06-2-A078	PERFORM OPERATORS MAINTAINENCE ON COMMUNICATIONS EQUIPMENT
Reference(s)	DA PAM 738-750	The Army Maintenance Management System (TAMMS)
Collective Task:	06-4-A001	MANAGE MAINTENANCE RECORDS AND SUBMIT REPORTS
Reference(s)	DA PAM 710-2-1	Using Unit Supply System: Manual Procedures
	DA PAM 738-750	The Army Maintenance Management System (TAMMS)
Collective Task:	06-4-A002	ESTABLISH AN ORGANIZATIONAL MAINTENANCE FACILITY
Reference(s)	DA PAM 738-750	The Army Maintenance Management System (TAMMS)
	FM 6-20-1	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battalion. 29 November 1990.
	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-60	Tactics, Techniques, and Procedures for the Multiple Launch Rocket System (MLRS) Operations
Collective Task:	06-4-A003	MAINTAIN PETROLEUM, OILS, AND LUBRICANTS
Reference(s)	AR 703-1	Coal and Petroleum Products Supply and Management Activities
Collective Task:	06-4-C006	TRANSPORT AMMUNITION (FIRING BATTERY)
Reference(s)	AR 385-64	Ammunition and Explosives Safety Standards 23 May 1987.
	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-70	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.

	ST 6-50-60	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	TM 9-1300-206	Ammunition and Explosives Standards. 30 August 1973.
	TM 9-2320-280-10	Operator's Manual for Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4x4, M998
	TM 9-2350-247-10	Operator's Manual for Carrier, Cargo; Tracked: 6-Ton, M548...and M548A1...and Carrier, Electronic Warfare System, M1015...and 1015A1.... 1 April 1976.
Collective Task:	06-4-C008	STORE AMMUNITION (HOWITZER SECTION)
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-70	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	ST 6-50-60	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	TM 9-1300-206	Ammunition and Explosives Standards. 30 August 1973.
	TM 9-2320-280-10	Operator's Manual for Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4x4, M998
	TM 9-2350-247-10	Operator's Manual for Carrier, Cargo; Tracked: 6-Ton, M548...and M548A1...and Carrier, Electronic Warfare System, M1015...and 1015A1.... 1 April 1976.
Collective Task:	06-4-C010	DRAW CANNON AMMUNITION (BATTERY AMMUNITION SECTION)
Reference(s)	AR 190-11	Physical Security of Arms, Ammunition and Explosives. 31 March 1986.
	AR 710-2	Supply Policy Below the Wholesale Level
	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-70	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	ST 6-50-60	Tactics, Techniques, and Procedure for Paladin Platoon, Battery, and Battalion. June 1993.
	TM 9-1300-200	Ammunition, General. 30 October 1969.
	TM 9-1300-206	Ammunition and Explosives Standards. 30 August 1973.
Collective Task:	06-4-C011	PREPARE AMMUNITION FOR AIR TRANSPORT
Reference(s)	FM 55-450-1	Army Helicopter External Load Operations. 3 October 1988.
	FM 55-450-2	Army Helicopter Internal Load Operations

	FM 55-450-3	Multiservice Helicopter External Air Transport
	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
Collective Task:	10-2-C002.06-A000	PERFORM UNIT GRAVES REGISTRATION FUNCTIONS
Reference(s)	FM 10-63	Handling Of Deceased Personnel In Theaters Of Operations, 28 February 1988.
	FM 10-63-1	Graves Registration Handbook
Collective Task:	10-2-C230.06-A001	PROVIDE UNIT SUPPLY SUPPORT
Reference(s)	AR 710-2	Supply Policy Below the Wholesale Level
	DA PAM 710-2-1	Using Unit Supply System: Manual Procedures
	FM 3-4	NBC Protection, 21 October 1985.
	FM 3-5	NBC Decontamination, 24 June 1985.
	FM 63-2	Combat Service Support Operations--Division (How to Support). 21 November 1983.
Collective Task:	12-2-C321.06-A007	MAINTAIN COMPANY/BATTERY STRENGTH
Reference(s)	FM 101-5	Staff Organization and Operations
	FM 12-6	Personnel Doctrine
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	TC 12-6	Wartime Strength Accounting
Collective Task:	12-3-C216.06-A008	MAINTAIN PLATOON STRENGTH
Reference(s)	FM 12-6	Personnel Doctrine
	FM 3-3	NBC Contamination Avoidance, 30 September 1986.
	FM 3-5	NBC Decontamination, 24 June 1985.
	STP 21-24-SMCT	Soldier's Manual of Common Tasks Skill Levels 2/3/4
	TC 12-16	Personnel and Administration Center (PAC) Drill Book. 28 August 1985.
	TC 12-6	Wartime Strength Accounting
Collective Task:	43-2-C322.06-A000	PERFORM UNIT LEVEL MAINTENANCE
Reference(s)	AR 220-1	Unit Status Reporting. 16 September 1986.
	AR 385-10	Army Safety Program. 23 May 1988.

	AR 385-30	Safety Color Code Markings and Signs 15 September 1983.
	AR 385-40	Accident Reporting And Records, 1 April 1987
	AR 700-138	Army Logistics Readiness and Sustainability. 27 December 1985.
	AR 750-1	Army Materiel Maintenance Policy and Retail Maintenance Operations 30 October 1989.
	DA PAM 738-750	The Army Maintenance Management System (TAMMS)
	FM 10-69	Petroleum Supply Point Equipment and Operations
	FM 20-22	Vehicle Recovery Operations
	FM 43-5	Unit Maintenance Operations. 28 September 1988.
Collective Task:	43-2-C323.06-A001	MANAGE UNIT MAINTENANCE OPERATIONS
Reference(s)	FM 43-5	Unit Maintenance Operations. 28 September 1988.

BOS: Exercise Command and Control

Collective Task:	06-1-A049	PARTICIPATE IN REHEARSAL OPERATIONS (COMPANY FIRE SUPPORT TEAM)
Reference(s)	FM 6-20-20	Tactics, Techniques, and Procedures for Fire Support at Battalion Task Force and Below, 27 December 1991
	FM 6-20-40	TTP for Fire Support for Brigade Operations
	FM 6-20-50	Tactics, Techniques, and Procedures for Fire Support for Brigade Operations (Light), 5 January 1990
	FM 6-71	Tactics, Techniques and Procedures for Fire Support for the Combined Arms Commander
Collective Task:	06-1-W103	COMMAND AND CONTROL DELIVERY OF FIRES
Reference(s)	FM 6-20	Fire Support in the AirLand Battle. 17 May 1988.
	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-60	Tactics, Techniques, and Procedures for the Multiple Launch Rocket System (MLRS) Operations
Collective Task:	06-2-A000.06-C000	ESTABLISH AND MAINTAIN COMMUNICATIONS
Reference(s)	ACP 125	Communication Instruction Radio-Telephone Procedures. 1 July 1970.
	ACP 125 US SUPPL 1	Communications Instructions Radiotelephone Procedures For Use by United States Ground Forces.

	ACP 125(E)	Communication Instructions--Radiotelephone Procedures.
	FM 24-18	Tactical Single-Channel Radio Communications Techniques
	FM 24-19	Radio Operator's Handbook.
	FM 24-35 (O)	Communication-Electronics Operations Instructions (CEOI) (O)
	FM 24-35-1	Signal Supplemental Instructions
	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-60	Tactics, Techniques, and Procedures for the Multiple Launch Rocket System (MLRS) Operations
Collective Task:	06-2-A098	PREPARE FOR COMBAT
Reference(s)	FM 100-5	Operations
	FM 7-10 (HTF)	The Infantry Rifle Company (Infantry, Airborne, Air Assault, Ranger) (How to Fight). 8 January 1982.
	FM 7-7J	The Mechanized Infantry Platoon And Squad (BRADLEY)
	FM 7-8 (HTF)	The Infantry Platoon And Squad (Infantry, Airborne, Air Assault, Ranger)(How To Fight), 31 December 1980
Collective Task:	06-2-A099	DEVELOP AND COMMUNICATE A PLAN
Reference(s)	FM 100-5	Operations
	FM 7-10 (HTF)	The Infantry Rifle Company (Infantry, Airborne, Air Assault, Ranger) (How to Fight). 8 January 1982.
	FM 7-8 (HTF)	The Infantry Platoon And Squad (Infantry, Airborne, Air Assault, Ranger)(How To Fight), 31 December 1980
Collective Task:	06-2-W109	ESTABLISH AND MAINTAIN A BATTERY/PLATOON OPERATIONS AND FIRE DIRECTION CENTERS
Reference(s)	FM 6-60	Tactics, Techniques, and Procedures for the Multiple Launch Rocket System (MLRS) Operations
	TM 11-5820-348-15	Organizational, Direct Support, General Support, and Depot Maintenance Manual: Antenna Equipment, RC-292. 23 May 1966.
	TM 11-7440-283-12-1	Operator's and Organizational Maintenance Manual for Computer Groups, Gun Direction, OL-200/GYK-29(V). 24 September 1982.
	TM 11-7440-283-12-1-3	Operator's Manual for Multiple Launch Rocket System Fire Direction System, AN/GYK-29(v)
Collective Task:	06-3-A004	COMMAND AND CONTROL BATTERY/PLATOON/SECTION MOVEMENT OPERATIONS

Reference(s)	FM 6-20	Fire Support in the AirLand Battle. 17 May 1988.
	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
	FM 6-60	Tactics, Techniques, and Procedures for the Multiple Launch Rocket System (MLRS) Operations
Collective Task:	06-3-C001	DIRECT AND CONTROL FIRING BATTERY/PLATOON OPERATIONS (CANNON)
Reference(s)	FM 6-50	Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery
Collective Task:	06-4-W108	CONTROL AND COORDINATE FIRE PLANS
Reference(s)	FM 6-20	Fire Support in the AirLand Battle. 17 May 1988.
	FM 6-60	Tactics, Techniques, and Procedures for the Multiple Launch Rocket System (MLRS) Operations
Collective Task:	11-2-C302.06-C001	ESTABLISH AND OPERATE A SINGLE-CHANNEL VOICE RADIO NET
Reference(s)	FM 24-1	Signal Support In The Airland Battle
	FM 24-18	Tactical Single-Channel Radio Communications Techniques
	FM 24-19	Radio Operator's Handbook.
	FM 24-33	Communications Techniques Electronic Counter-Countermeasures, 22 March 1985.
Collective Task:	11-5-0102.06-A000	INSTALL /OPERATE/MAINTAIN A SINGLE CHANNEL VOICE RADIO STATION
Reference(s)	FM 19-30	Physical Security, 1 March 1979.
	FM 20-3	Camouflage
	FM 24-18	Tactical Single-Channel Radio Communications Techniques
	FM 24-19	Radio Operator's Handbook.
	FM 24-33	Communications Techniques Electronic Counter-Countermeasures, 22 March 1985.
	FM 24-35 (O)	Communication-Electronics Operations Instructions (CEOI) (O)
	FM 24-35-1	Signal Supplemental Instructions
	FM 3-4	NBC Protection, 21 October 1985.
	FM 3-5	NBC Decontamination, 24 June 1985.
	FM 5-36	Route Reconnaissance and Classification

Collective Task: 11-5-1102.06-A001 INSTALL/OPERATE/MAINTAIN A SINGLE CHANNEL
GROUND AND AIRBORNE RADIO SYSTEM (SINGGARS) FREQUENCY
HOPPING (FH) NET

Reference(s)	FM 11-32	Combat Net Radio Operations
	FM 20-3	Camouflage
	FM 24-18	Tactical Single-Channel Radio Communications Techniques
	FM 24-19	Radio Operator's Handbook.
	FM 24-33	Communications Techniques Electronic Counter-Countermeasures, 22 March 1985.
	FM 24-35 (O)	Communication-Electronics Operations Instructions (CEOI) (O)
	FM 24-35-1	Signal Supplemental Instructions

Figure 2-3. Collective Task to Supporting References.

2-4. Individual Task to Collective Task Listing. This listing (Figure 2-4), identifies the relationship that exists between the Collective Tasks in this publication and the Individual Tasks that support it.

03-2-C310.06-0000 CONDUCT A CHEMICAL SURVEY

Enlisted MOS: COM Skill Level: 1

Individual Task(s)

031-503-1014	IDENTIFY CHEMICAL AGENTS USING M8 DETECTOR PAPER
031-503-1015	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WITH MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
031-503-1020	DETECT CHEMICAL AGENTS USING M9 DETECTOR PAPER
071-329-1005	DETERMINE A LOCATION ON THE GROUND BY TERRAIN ASSOCIATION

Enlisted MOS: COM Skill Level: 2

Individual Task(s)

031-503-2001	USE M256 OR M256A1 CHEMICAL AGENT DETECTOR KIT
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Enlisted MOS: COM Skill Level: 3

Individual Task(s)

031-503-3004	SUPERVISE THE CROSSING OF A CONTAMINATED AREA
031-503-3008	IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE
031-503-3010	SUPERVISE EMPLOYMENT OF NUCLEAR, BIOLOGICAL, OR CHEMICAL MARKERS
071-326-5626	PREPARE AN ORAL OPERATION ORDER

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)
 04-3303.01-0020 Prepare Squad/Platoon Combat Orders

Officer MOS: COM Skill Level: 2nd Lieutenant

Individual Task(s)
 O4-3303.02-0014 Prepare Platoon or Company Combat Orders
 O4-5030.00-2013 Implement Mission-Oriented Protective Posture Based on Threat or Direction
 O4-5030.00-2022 Supervise Employment of Nuclear, Biological, or Chemical Markers

03-2-C312.06-A001 CONDUCT THOROUGH DECONTAMINATION OPERATIONS

Enlisted MOS: COM Skill Level: 1

Individual Task(s)
 031-503-1004 PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/
 CONTAMINATION USING YOUR M17-SERIES PROTECTIVE MASK WITH
 HOOD
 031-503-1006 PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WHEN
 DRINKING FROM YOUR CANTEEN WHILE WEARING YOUR PROTECTIVE
 MASK
 031-503-1007 DECONTAMINATE YOUR SKIN AND PERSONAL EQUIPMENT USING AN
 M258A1 DECONTAMINATION KIT
 031-503-1008 PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/
 CONTAMINATION WHILE ELIMINATING BODYWASTE WHEN WEARING
 MOPP4
 031-503-1011 MAINTAIN YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD
 031-503-1012 PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL
 INJURY/CONTAMINATION USING YOUR M24 OR M25-SERIES PROTECTIVE
 MASK WITH HOOD
 031-503-1014 IDENTIFY CHEMICAL AGENTS USING M8 DETECTOR PAPER
 031-503-1020 DETECT CHEMICAL AGENTS USING M9 DETECTOR PAPER
 031-503-1033 DECONTAMINATE YOUR SKIN USING THE M291 SKIN DECONTAMINATING
 KIT (SDK)
 031-503-1034 DECONTAMINATE YOUR INDIVIDUAL EQUIPMENT USING THE M295
 INDIVIDUAL EQUIPMENT DECONTAMINATION KIT (IEDK)

Enlisted MOS: COM Skill Level: 3

Individual Task(s)
 031-503-3009 LEAD MOPP GEAR EXCHANGE
 031-507-3003 SUPERVISE HASTY DECONTAMINATION
 071-326-3013 CONDUCT A TACTICAL ROAD MARCH

Officer MOS: COM Skill Level: 2nd Lieutenant

Individual Task(s)
 O4-5030.00-2020 Supervise Nuclear, Biological, or Chemical Decontamination

03-3-C201.06-A002 PREPARE FOR OPERATIONS UNDER NBC CONDITIONS

Enlisted MOS: COM Skill Level: 1

Individual Task(s)	
031-503-1004	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M17-SERIES PROTECTIVE MASK WITH HOOD
031-503-1006	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WHEN DRINKING FROM YOUR CANTEEN WHILE WEARING YOUR PROTECTIVE MASK
031-503-1012	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD
031-503-1015	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WITH MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
031-503-1020	DETECT CHEMICAL AGENTS USING M9 DETECTOR PAPER
031-503-1023	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WHEN CHANGING MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
031-503-1024	REPLACE CANISTER ON YOUR M40-SERIES PROTECTIVE MASK
031-503-1025	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M40-SERIES PROTECTIVE MASK WITH HOOD

Enlisted MOS: COM Skill Level: 2

Individual Task(s)	
031-503-2001	USE M256 OR M256A1 CHEMICAL AGENT DETECTOR KIT
031-503-2013	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM174-SERIES RADIACMETER
031-503-2020	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM93 OR IM147 DOSIMETER AND PP1578-SERIES CHARGER
031-503-2022	USE AND MAINTAIN THE AN/VDR-2 RADIAC SET
031-503-3008	IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE

Enlisted MOS: COM Skill Level: 3

Individual Task(s)	
031-503-3004	SUPERVISE THE CROSSING OF A CONTAMINATED AREA
031-503-3006	SUPERVISE RADIATION MONITORING
031-503-3008	IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE
031-503-3009	LEAD MOPP GEAR EXCHANGE
031-503-3010	SUPERVISE EMPLOYMENT OF NUCLEAR, BIOLOGICAL, OR CHEMICAL MARKERS
031-504-3001	SUPERVISE POSITIONING OF THE CHEMICAL AGENT ALARM

Enlisted MOS: COM Skill Level: 4

Individual Task(s)	
031-503-4002	SUPERVISE UNIT PREPARATION FOR NBC ATTACK
031-503-4003	CONTROL UNIT RADIATION EXPOSURE

Officer MOS: COM Skill Level: 2nd Lieutenant

Individual Task(s)	
O4-5030.00-2013	Implement Mission-Oriented Protective Posture Based on Threat or Direction

04-5030.00-2015 Supervise Radiation Monitoring
 04-5030.00-2017 Prepare for Nuclear, Biological, or Chemical Attack

03-3-C202.06-A003 PREPARE FOR A CHEMICAL ATTACK

Enlisted MOS: COM Skill Level: 1

Individual Task(s)

031-503-1015 PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WITH MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
 031-503-1020 DETECT CHEMICAL AGENTS USING M9 DETECTOR PAPER

Enlisted MOS: COM Skill Level: 3

Individual Task(s)

031-503-3008 IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE
 031-504-3001 SUPERVISE POSITIONING OF THE CHEMICAL AGENT ALARM

Enlisted MOS: COM Skill Level: 4

Individual Task(s)

031-503-4002 SUPERVISE UNIT PREPARATION FOR NBC ATTACK

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)

04-3303.01-0020 Prepare Squad/Platoon Combat Orders

Officer MOS: COM Skill Level: 2nd Lieutenant

Individual Task(s)

04-3303.02-0014 Prepare Platoon or Company Combat Orders
 04-5030.00-2013 Implement Mission-Oriented Protective Posture Based on Threat or Direction
 04-5030.00-2017 Prepare for Nuclear, Biological, or Chemical Attack

03-3-C203.06-A004 RESPOND TO A CHEMICAL ATTACK

Enlisted MOS: COM Skill Level: 1

Individual Task(s)

031-503-1007 DECONTAMINATE YOUR SKIN AND PERSONAL EQUIPMENT USING AN M258A1 DECONTAMINATION KIT
 031-503-1014 IDENTIFY CHEMICAL AGENTS USING M8 DETECTOR PAPER
 031-503-1015 PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WITH MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
 031-503-1019 REACT TO CHEMICAL OR BIOLOGICAL HAZARD/ATTACK
 031-503-1020 DETECT CHEMICAL AGENTS USING M9 DETECTOR PAPER
 031-503-1025 PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M40-SERIES PROTECTIVE MASK WITH HOOD

031-503-1028	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION USING YOUR M42 PROTECTIVE MASK WITH HOOD
031-503-1033	DECONTAMINATE YOUR SKIN USING THE M291 SKIN DECONTAMINATING KIT (SDK)
031-503-1034	DECONTAMINATE YOUR INDIVIDUAL EQUIPMENT USING THE M295 INDIVIDUAL EQUIPMENT DECONTAMINATION KIT (IEDK)
081-831-1000	EVALUATE A CASUALTY
081-831-1030	ADMINISTER NERVE AGENT ANTIDOTE TO SELF (SELF-AID)
081-831-1031	ADMINISTER FIRST AID TO A NERVE AGENT CASUALTY (BUDDY-AID)

Enlisted MOS: COM Skill Level: 2

Individual Task(s)

031-503-2001	USE M256 OR M256A1 CHEMICAL AGENT DETECTOR KIT
031-503-2004	PREPARE AND SUBMIT NBC 4 REPORTS

Enlisted MOS: COM Skill Level: 3

Individual Task(s)

031-503-3005	PREPARE AND SUBMIT NBC 1 REPORTS
031-503-3008	IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)

01-5030.00-1007	Decontaminate Your Skin and Personal Equipment
01-5700.01-0001	Communicate on a Tactical Radio
04-8310.00-3016	Administer First Aid to a Nerve Agent Casualty (Buddy-Aid)

Officer MOS: COM Skill Level: 2nd Lieutenant

Individual Task(s)

04-5030.00-2008	Prepare and Submit Nuclear, Biological, or Chemical 1 Report
04-5030.00-2013	Implement Mission-Oriented Protective Posture Based on Threat or Direction
04-5030.00-2020	Supervise Nuclear, Biological, or Chemical Decontamination

03-3-C205.06-A001 PREPARE FOR A FRIENDLY NUCLEAR STRIKE

Enlisted MOS: COM Skill Level: 1

Individual Task(s)

031-503-1005	MAINTAIN YOUR M17-SERIES PROTECTIVE MASK WITH HOOD
031-503-1011	MAINTAIN YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD
031-503-1018	REACT TO A NUCLEAR HAZARD
031-503-1025	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION USING YOUR M40-SERIES PROTECTIVE MASK WITH HOOD
031-503-1028	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION USING YOUR M42 PROTECTIVE MASK WITH HOOD

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
031-503-2022 USE AND MAINTAIN THE AN/VDR-2 RADIAC SET

Enlisted MOS: COM Skill Level: 3

Individual Task(s)
031-503-3005 PREPARE AND SUBMIT NBC 1 REPORTS
031-503-3006 SUPERVISE RADIATION MONITORING
031-503-3008 IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
031-503-4002 SUPERVISE UNIT PREPARATION FOR NBC ATTACK
031-503-4003 CONTROL UNIT RADIATION EXPOSURE

03-3-C206.06-A005 PREPARE FOR NUCLEAR ATTACK

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
031-503-2004 PREPARE AND SUBMIT NBC 4 REPORTS
031-503-2013 USE AND PERFORM OPERATOR MAINTENANCE ON THE IM174-SERIES RADIACMETER
031-503-2020 USE AND PERFORM OPERATOR MAINTENANCE ON THE IM93 OR IM147 DOSIMETER AND PP1578-SERIES CHARGER
031-503-2022 USE AND MAINTAIN THE AN/VDR-2 RADIAC SET

Enlisted MOS: COM Skill Level: 3

Individual Task(s)
031-503-3006 SUPERVISE RADIATION MONITORING

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
031-503-4002 SUPERVISE UNIT PREPARATION FOR NBC ATTACK

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)
01-5700.01-0001 Communicate on a Tactical Radio
04-3303.01-0020 Prepare Squad/Platoon Combat Orders

Officer MOS: COM Skill Level: 2nd Lieutenant

Individual Task(s)
04-3303.02-0014 Prepare Platoon or Company Combat Orders
04-5030.00-2015 Supervise Radiation Monitoring
04-5030.00-2017 Prepare for Nuclear, Biological, or Chemical Attack

03-3-C208.06-A006 CROSS A RADIOLOGICALLY CONTAMINATED AREA

Enlisted MOS: COM Skill Level: 1

Individual Task(s)

031-503-1014	IDENTIFY CHEMICAL AGENTS USING M8 DETECTOR PAPER
071-329-1005	DETERMINE A LOCATION ON THE GROUND BY TERRAIN ASSOCIATION

Enlisted MOS: COM Skill Level: 2

Individual Task(s)

031-503-2013	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM174-SERIES RADIACMETER
031-503-2020	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM93 OR IM147 DOSIMETER AND PP1578-SERIES CHARGER
031-503-2022	USE AND MAINTAIN THE AN/VDR-2 RADIAC SET
121-030-3534	REPORT CASUALTIES

Enlisted MOS: COM Skill Level: 3

Individual Task(s)

031-503-3004	SUPERVISE THE CROSSING OF A CONTAMINATED AREA
031-503-3006	SUPERVISE RADIATION MONITORING

Enlisted MOS: COM Skill Level: 4

Individual Task(s)

031-503-4003	CONTROL UNIT RADIATION EXPOSURE
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Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)

01-5700.01-0001	Communicate on a Tactical Radio
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Officer MOS: COM Skill Level: 2nd Lieutenant

Individual Task(s)

O4-5030.00-2015	Supervise Radiation Monitoring
O4-5030.00-2019	Control Unit Radiation Exposure

03-3-C222.06-A007 RESPOND TO THE RESIDUAL EFFECTS OF A NUCLEAR ATTACK

Enlisted MOS: COM Skill Level: 2

Individual Task(s)

031-503-2013	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM174-SERIES RADIACMETER
031-503-2020	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM93 OR IM147 DOSIMETER AND PP1578-SERIES CHARGER

031-503-2022 USE AND MAINTAIN THE AN/VDR-2 RADIAC SET

Enlisted MOS: COM Skill Level: 3

Individual Task(s)
031-503-3006 SUPERVISE RADIATION MONITORING

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
031-503-4002 SUPERVISE UNIT PREPARATION FOR NBC ATTACK
031-503-4003 CONTROL UNIT RADIATION EXPOSURE

Officer MOS: COM Skill Level: 2nd Lieutenant

Individual Task(s)
O4-5030.00-2015 Supervise Radiation Monitoring
O4-5030.00-2017 Prepare for Nuclear, Biological, or Chemical Attack
O4-5030.00-2019 Control Unit Radiation Exposure

03-3-C223.06-A008 RESPOND TO THE INITIAL EFFECTS OF A NUCLEAR ATTACK

Enlisted MOS: COM Skill Level: 1

Individual Task(s)
031-503-1018 REACT TO A NUCLEAR HAZARD
081-831-1005 PREVENT SHOCK
081-831-1007 GIVE FIRST AID FOR BURNS
081-831-1016 PUT ON A FIELD OR PRESSURE DRESSING
081-831-1017 PUT ON A TOURNIQUET
081-831-1025 APPLY A DRESSING TO AN OPEN ABDOMINAL WOUND
081-831-1033 APPLY A DRESSING TO AN OPEN HEAD WOUND
081-831-1034 SPLINT A SUSPECTED FRACTURE

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
031-503-2013 USE AND PERFORM OPERATOR MAINTENANCE ON THE IM174-SERIES RADIACMETER
031-503-2020 USE AND PERFORM OPERATOR MAINTENANCE ON THE IM93 OR IM147 DOSIMETER AND PP1578-SERIES CHARGER
031-503-2022 USE AND MAINTAIN THE AN/VDR-2 RADIAC SET
113-573-8006 USE AN AUTOMATED SIGNAL OPERATION INSTRUCTION (SOI)

Enlisted MOS: COM Skill Level: 3

Individual Task(s)
031-503-3005 PREPARE AND SUBMIT NBC 1 REPORTS
031-503-3006 SUPERVISE RADIATION MONITORING
081-831-0101 REQUEST MEDICAL EVACUATION

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
031-503-4003 CONTROL UNIT RADIATION EXPOSURE

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)
01-5700.01-0001 Communicate on a Tactical Radio
01-5700.01-0002 Determine Call Signs, Frequencies, and Item Numbers
04-8310.00-3014 Give First Aid for Burns

Officer MOS: COM Skill Level: 2nd Lieutenant

Individual Task(s)
04-5030.00-2007 Supervise Unit Response to Nuclear Attack or Radiological Hazard
04-5030.00-2008 Prepare and Submit Nuclear, Biological, or Chemical 1 Report
04-5030.00-2015 Supervise Radiation Monitoring

03-3-C224.06-A009 CONDUCT OPERATIONAL DECONTAMINATION

Enlisted MOS: COM Skill Level: 1

Individual Task(s)
031-503-1004 PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/
CONTAMINATION USING YOUR M17-SERIES PROTECTIVE MASK WITH
HOOD
031-503-1005 MAINTAIN YOUR M17-SERIES PROTECTIVE MASK WITH HOOD
031-503-1006 PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WHEN
DRINKING FROM YOUR CANTEEN WHILE WEARING YOUR PROTECTIVE
MASK
031-503-1007 DECONTAMINATE YOUR SKIN AND PERSONAL EQUIPMENT USING AN
M258A1 DECONTAMINATION KIT
031-503-1011 MAINTAIN YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD
031-503-1012 PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL
INJURY/CONTAMINATION USING YOUR M24 OR M25-SERIES PROTECTIVE
MASK WITH HOOD
031-503-1014 IDENTIFY CHEMICAL AGENTS USING M8 DETECTOR PAPER
031-503-1023 PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WHEN
CHANGING MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
031-503-1024 REPLACE CANISTER ON YOUR M40-SERIES PROTECTIVE MASK
031-503-1025 PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/
CONTAMINATION USING YOUR M40-SERIES PROTECTIVE MASK WITH
HOOD
071-329-1000 Identify Topographic Symbols on a Military Map
071-329-1001 Identify Terrain Features on a Map
071-329-1002 Determine the Grid Coordinates of a Point on a Military Map
071-329-1008 Measure Distance on a Map
081-831-1031 ADMINISTER FIRST AID TO A NERVE AGENT CASUALTY (BUDDY-AID)
551-721-1352 Perform Vehicle Preventive Maintenance Checks and Services (PMCS)

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
113-573-8006 USE AN AUTOMATED SIGNAL OPERATION INSTRUCTION (SOI)

Enlisted MOS: COM Skill Level: 3

Individual Task(s)
031-503-3006 SUPERVISE RADIATION MONITORING
031-503-3009 LEAD MOPP GEAR EXCHANGE
031-503-3010 SUPERVISE EMPLOYMENT OF NUCLEAR, BIOLOGICAL, OR CHEMICAL MARKERS
031-507-3003 SUPERVISE HASTY DECONTAMINATION

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
850-001-4001 INTEGRATE RISK MANAGEMENT IN PLATOON MISSION

03-3-C225.06-A010 CONDUCT CHEMICAL RECONNAISSANCE

Enlisted MOS: COM Skill Level: 1

Individual Task(s)
031-503-1004 PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M17-SERIES PROTECTIVE MASK WITH HOOD
031-503-1005 MAINTAIN YOUR M17-SERIES PROTECTIVE MASK WITH HOOD
031-503-1008 PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION WHILE ELIMINATING BODYWASTE WHEN WEARING MOPP4
031-503-1011 MAINTAIN YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD
031-503-1014 IDENTIFY CHEMICAL AGENTS USING M8 DETECTOR PAPER
031-503-1015 PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WITH MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
031-503-1020 DETECT CHEMICAL AGENTS USING M9 DETECTOR PAPER
031-503-1023 PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WHEN CHANGING MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
031-503-1025 PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M40-SERIES PROTECTIVE MASK WITH HOOD
031-503-1028 PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M42 PROTECTIVE MASK WITH HOOD
031-503-1033 DECONTAMINATE YOUR SKIN USING THE M291 SKIN DECONTAMINATING KIT (SDK)
031-503-1034 DECONTAMINATE YOUR INDIVIDUAL EQUIPMENT USING THE M295 INDIVIDUAL EQUIPMENT DECONTAMINATION KIT (IEDK)
551-721-1352 Perform Vehicle Preventive Maintenance Checks and Services (PMCS)

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
031-503-2001 USE M256 OR M256A1 CHEMICAL AGENT DETECTOR KIT
031-503-2004 PREPARE AND SUBMIT NBC 4 REPORTS

031-503-3009	LEAD MOPP GEAR EXCHANGE
091-309-0710	SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES

Enlisted MOS: COM Skill Level: 3

Individual Task(s)	
031-503-3004	SUPERVISE THE CROSSING OF A CONTAMINATED AREA
031-503-3005	PREPARE AND SUBMIT NBC 1 REPORTS
031-503-3008	IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE
031-503-3010	SUPERVISE EMPLOYMENT OF NUCLEAR, BIOLOGICAL, OR CHEMICAL MARKERS
031-507-3003	SUPERVISE HASTY DECONTAMINATION
071-326-5626	PREPARE AN ORAL OPERATION ORDER
091-309-0710	SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)	
01-5030.00-1007	Decontaminate Your Skin and Personal Equipment
01-5700.01-0001	Communicate on a Tactical Radio
04-3303.01-0019	Use a Map Overlay
04-3303.01-0020	Prepare Squad/Platoon Combat Orders
04-3303.01-0034	Navigate Using a Map and Compass

Officer MOS: COM Skill Level: 2nd Lieutenant

Individual Task(s)	
04-3303.02-0014	Prepare Platoon or Company Combat Orders
04-5030.00-2013	Implement Mission-Oriented Protective Posture Based on Threat or Direction
04-5030.00-2020	Supervise Nuclear, Biological, or Chemical Decontamination
04-5030.00-2022	Supervise Employment of Nuclear, Biological, or Chemical Markers

03-3-C226.06-A011 CROSS CHEMICALLY CONTAMINATED AREA

Enlisted MOS: COM Skill Level: 1

Individual Task(s)	
031-503-1005	MAINTAIN YOUR M17-SERIES PROTECTIVE MASK WITH HOOD
031-503-1007	DECONTAMINATE YOUR SKIN AND PERSONAL EQUIPMENT USING AN M258A1 DECONTAMINATION KIT
031-503-1011	MAINTAIN YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD
031-503-1014	IDENTIFY CHEMICAL AGENTS USING M8 DETECTOR PAPER
031-503-1015	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WITH MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
031-503-1020	DETECT CHEMICAL AGENTS USING M9 DETECTOR PAPER
031-503-1023	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WHEN CHANGING MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
031-503-1025	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M40-SERIES PROTECTIVE MASK WITH HOOD
031-503-1028	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M42 PROTECTIVE MASK WITH HOOD

031-503-1033	DECONTAMINATE YOUR SKIN USING THE M291 SKIN DECONTAMINATING KIT (SDK)
031-503-1034	DECONTAMINATE YOUR INDIVIDUAL EQUIPMENT USING THE M295 INDIVIDUAL EQUIPMENT DECONTAMINATION KIT (IEDK)
071-326-0503	MOVE OVER, THROUGH, OR AROUND OBSTACLES (EXCEPT MINEFIELDS)
071-329-1005	DETERMINE A LOCATION ON THE GROUND BY TERRAIN ASSOCIATION

Enlisted MOS: COM Skill Level: 2

Individual Task(s)

031-503-2001	USE M256 OR M256A1 CHEMICAL AGENT DETECTOR KIT
031-503-2004	PREPARE AND SUBMIT NBC 4 REPORTS
031-503-2022	USE AND MAINTAIN THE AN/VDR-2 RADIAC SET
121-030-3534	REPORT CASUALTIES

Enlisted MOS: COM Skill Level: 3

Individual Task(s)

031-503-3004	SUPERVISE THE CROSSING OF A CONTAMINATED AREA
031-503-3006	SUPERVISE RADIATION MONITORING
031-503-3008	IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)

01-5030.00-1007	Decontaminate Your Skin and Personal Equipment
04-3306.01-0003	Move Over, Through, or Around Obstacles (Except Minefields)

Officer MOS: COM Skill Level: 2nd Lieutenant

Individual Task(s)

O4-5030.00-2013	Implement Mission-Oriented Protective Posture Based on Threat or Direction
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06-1-A048 PLAN FIRES IN SUPPORT OF MANEUVER OPERATIONS

Enlisted MOS: 13F Skill Level: 1

Individual Task(s)

061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
061-301-5011	Process Fire Plan Information Using the AN/PSG-7
061-301-8000	Prepare the AN/PSG-7 for Operation
061-302-8000	Enter Member and Authentication Data

Enlisted MOS: 13F Skill Level: 2

Individual Task(s)

061-283-2051	SELECT AND OCCUPY AN OBSERVATION POST
061-284-1001	PREPARE/SUBMIT FORWARD OBSERVER TARGET LIST
061-284-5005	CONTROL CLOSE AIR SUPPORT
061-284-5006	CONDUCT A MOVING TARGET MISSION

Enlisted MOS: 13F Skill Level: 3

Individual Task(s)

061-284-3004	Advise Supported Unit of Friendly Fire Support Capabilities and Limitations
061-284-3030	Request Close Air Support (CAS)
061-284-3046	Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements
061-284-3226	Produce Company Fire Support Plan
061-284-3227	Process Forward Observer Target Lists
061-299-5007	Process Tactical Fire Control Data
061-299-5009	Process Artillery Target Intelligence Data
061-299-5010	Process Fire Planning

06-1-A049 PARTICIPATE IN REHEARSAL OPERATIONS (COMPANY FIRE SUPPORT TEAM)

Enlisted MOS: 13F Skill Level: 1

Individual Task(s)

061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
061-301-8000	Prepare the AN/PSG-7 for Operation

Enlisted MOS: 13F Skill Level: 2

Individual Task(s)

061-283-2051	SELECT AND OCCUPY AN OBSERVATION POST
061-284-5006	CONDUCT A MOVING TARGET MISSION

Enlisted MOS: 13F Skill Level: 3

Individual Task(s)

061-284-3004	Advise Supported Unit of Friendly Fire Support Capabilities and Limitations
061-284-3046	Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements
061-284-3220	Establish the Fire Support Team (FIST) Headquarters Communications
061-284-3226	Produce Company Fire Support Plan
061-284-3227	Process Forward Observer Target Lists

06-1-A050 COORDINATE, DIRECT, AND ADJUST OTHER FIRE SUPPORT ASSETS

Enlisted MOS: 13F Skill Level: 1

Individual Task(s)

061-274-5100	PREPARE THE AN/TVQ-2 (GVLLD) FOR OPERATION (DISMOUNTED MODE)
061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
061-301-8000	Prepare the AN/PSG-7 for Operation
061-354-2022	Install the G/VLLD into the Targeting Head
061-355-5100	PREPARE THE FOS HTU FOR OPERATION
061-355-5101	PREPARE THE FOS LCU FOR OPERATION
061-355-5104	Transmit Information Messages

Enlisted MOS: 13F Skill Level: 2

Individual Task(s)	
061-284-5001	ADJUST NAVAL GUNFIRE
061-284-5005	CONTROL CLOSE AIR SUPPORT

Enlisted MOS: 13F Skill Level: 3

Individual Task(s)	
061-284-3004	Advise Supported Unit of Friendly Fire Support Capabilities and Limitations
061-284-3030	Request Close Air Support (CAS)
061-284-3220	Establish the Fire Support Team (FIST) Headquarters Communications
061-284-5000	Request Naval Gunfire
061-299-5008	Perform Fire Mission Processing

Enlisted MOS: 13F Skill Level: 4

Individual Task(s)	
061-284-4022	Coordinate Fires

06-1-W103 COMMAND AND CONTROL DELIVERY OF FIRES**Enlisted MOS: 13C Skill Level: 1**

Individual Task(s)	
061-275-8006	Operate as a Net Control Station (NCS)
061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals
061-300-5005	Update TAFCS Map Functions (AFATDS Units)
061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
061-300-5008	Enter the Field Artillery Support Plan Text (AFATDS Units)

Enlisted MOS: 13C Skill Level: 2

Individual Task(s)	
061-300-5013	Enter the Commander's Guidance into the TAFCS (AFATDS Units)
061-300-5014	Prepare the TAFCS for Fire Mission Processing (AFATDS Units)
061-300-5015	Process Target Information (AFATDS Units)
061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)
061-300-5017	Process Schedule of Fires (AFATDS Units)

Enlisted MOS: 13C Skill Level: 3

Individual Task(s)	
061-300-5021	Set Mission Critical List (AFATDS Units)

Enlisted MOS: 13C Skill Level: 4

Individual Task(s)	
061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)

Enlisted MOS: 13D Skill Level: 1

Individual Task(s)

061-275-8006	Operate as a Net Control Station (NCS)
061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals
061-300-5002	Establish TAFCS Communications Configurations (AFATDS Units)
061-300-5005	Update TAFCS Map Functions (AFATDS Units)
061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
061-300-5008	Enter the Field Artillery Support Plan Text (AFATDS Units)
061-300-5013	Enter the Commander's Guidance into the TAFCS (AFATDS Units)
061-300-5014	Prepare the TAFCS for Fire Mission Processing (AFATDS Units)
061-300-5015	Process Target Information (AFATDS Units)
061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)

Enlisted MOS: 13D Skill Level: 2

Individual Task(s)

061-300-5017	Process Schedule of Fires (AFATDS Units)
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Enlisted MOS: 13D Skill Level: 3

Individual Task(s)

061-279-5017	Maintain Operational Graphics on a Map
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Enlisted MOS: 13D Skill Level: 4

Individual Task(s)

061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)
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Enlisted MOS: 13E Skill Level: 1

Individual Task(s)

061-279-5003	Maintain Communication Using the AFC/DS
061-280-5000	Prepare to Process Fire Mission in Degraded Mode (Manual)
061-300-5005	Update TAFCS Map Functions (AFATDS Units)
061-300-5007	Update Unit Data in TAFCS (AFATDS Units)

Enlisted MOS: 13E Skill Level: 2

Individual Task(s)

061-279-5013	Process a Fire Plan Using the AFC/DS
061-279-5018	Execute Schedule of Fires
061-300-5014	Prepare the TAFCS for Fire Mission Processing (AFATDS Units)
061-300-5015	Process Target Information (AFATDS Units)
061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)

Enlisted MOS: 13E Skill Level: 3

Individual Task(s)

061-279-5017	Maintain Operational Graphics on a Map
061-280-5003	Supervise Preparation of Fire Mission Processing in Degraded Mode (Manual)
061-280-5004	Supervise Fire Mission Processing in Degraded Mode (Manual)

061-300-5021 Set Mission Critical List (AFATDS Units)

Enlisted MOS: 13F Skill Level: 1

Individual Task(s)

061-300-5005 Update TAFCS Map Functions (AFATDS Units)
 061-300-5007 Update Unit Data in TAFCS (AFATDS Units)
 061-300-5008 Enter the Field Artillery Support Plan Text (AFATDS Units)
 061-300-5021 Set Mission Critical List (AFATDS Units)

Enlisted MOS: 13F Skill Level: 3

Individual Task(s)

061-300-5013 Enter the Commander's Guidance into the TAFCS (AFATDS Units)
 061-300-5015 Process Target Information (AFATDS Units)
 061-300-5016 Process Fire Mission with the TAFCS (AFATDS Units)
 061-300-5017 Process Schedule of Fires (AFATDS Units)

Enlisted MOS: 13F Skill Level: 4

Individual Task(s)

061-300-5027 Conduct the Field Artillery Estimate (AFATDS Units)

Enlisted MOS: 13P Skill Level: 1

Individual Task(s)

061-275-8006 Operate as a Net Control Station (NCS)
 061-275-8009 Operate Mobile Subscriber Radio-Telephone Terminals
 061-287-1973 Process MLRS Fire Mission (s)
 061-287-5003 Process Map Modification Message(s)
 061-287-5004 Maintain Operational Graphics on a Map
 061-287-5005 Process Meteorological Messages
 061-287-5006 Process Battlefield Geometry
 061-287-5007 Process Ammunition/Fire Unit (AMMO/FU) Messages
 061-287-5010 Process Multiple Launch Rocket System (MLRS) Fire Plan(s)
 061-288-5102 Maintain Operational Graphics on a Map (Version 11)
 061-288-5104 Process MLRS Fire Mission (s) (Version 11)
 061-288-5107 Process Meteorological Data (Version 11)
 061-288-5108 Process Battlefield Geometry (Version 11)
 061-288-5109 Process Ammunition/ Fire Unit Message(s)
 061-288-5110 Process MLRS Fire Plan(s) (Version 11)

Enlisted MOS: 13P Skill Level: 2

Individual Task(s)

061-287-5011 Verify Operational Graphics on a Map

Enlisted MOS: 13P Skill Level: 3

Individual Task(s)

061-287-5020 Control MLRS Fire Plan(s)
 061-287-5021 Control the Conduct of MLRS Fire Mission(s)

061-287-5022 Control the Input to an MLRS Database

Enlisted MOS: 13P Skill Level: 4

Individual Task(s)

061-287-5018 Manage MLRS Fire Plan (s)
061-287-5019 Manage MLRS Fire Mission(s)

Enlisted MOS: 82C Skill Level: 1

Individual Task(s)

061-275-8009 Operate Mobile Subscriber Radio-Telephone Terminals

06-2-A000.06-C000 ESTABLISH AND MAINTAIN COMMUNICATIONS

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)

061-275-8014 Supervise the Operation of SINCGARS

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)

113-573-4006 USE THE KTC 1400(*) NUMERAL CIPHER AND AUTHENTICATION SYSTEM
113-587-2061 Operate Radio Set AN/VRC-64 or AN/GRC-160 with TSEC/KY-57

Enlisted MOS: 13C Skill Level: 1

Individual Task(s)

061-275-8006 Operate as a Net Control Station (NCS)
113-596-1017 CONSTRUCT A FIELD EXPEDIENT ANTENNA FOR TACTICAL FM RADIO
113-596-1068 INSTALL ANTENNA GROUP OE-254/GRC(Team Method)

Enlisted MOS: 13C Skill Level: 2

Individual Task(s)

061-300-5009 Perform Troubleshooting Procedures on the TAFCS (AFATDS Units)
061-300-5011 Process Messages for Transmission (AFATDS Units)

Enlisted MOS: 13C Skill Level: 3

Individual Task(s)

061-300-5018 Supervise Preparation of TAFCS (AFATDS Units)
061-300-5019 Supervise Operation of TAFCS (AFATDS Units)
061-300-5022 Update the Master unit List (AFATDS Units)

Enlisted MOS: 13C Skill Level: 4

Individual Task(s)

061-300-5023 Direct TAFCS Operations (AFATDS Units)

Enlisted MOS: 13D Skill Level: 1

Individual Task(s)
 061-275-8006 Operate as a Net Control Station (NCS)

Enlisted MOS: 13E Skill Level: 1

Individual Task(s)
 061-275-8004 Operate SINCGARS ICOM w/VIC-1
 061-279-5003 Maintain Communication Using the AFC/DS

Enlisted MOS: 13F Skill Level: 1

Individual Task(s)
 061-275-8013 Construct Field Expedient Antennas
 061-276-1012 Install Antenna Group OE-254/GRC
 113-587-2061 Operate Radio Set AN/VRC-64 or AN/GRC-160 with TSEC/KY-57

Enlisted MOS: 13M Skill Level: 1

Individual Task(s)
 113-587-2061 Operate Radio Set AN/VRC-64 or AN/GRC-160 with TSEC/KY-57

Enlisted MOS: 13P Skill Level: 1

Individual Task(s)
 061-275-8006 Operate as a Net Control Station (NCS)
 061-275-8008 Operate Improved High Frequency Radio (IHFR) Sets
 061-275-8009 Operate Mobile Subscriber Radio-Telephone Terminals
 061-275-8016 Supervise the Operation of Improved High Frequency Radio (IHFR) Sets
 061-276-1010 Install Antenna Group OE-303
 061-287-1031 Power up and Initialize the Fire Direction Data Manager (FDDM)
 061-287-1032 Process Multiple Authenticators for a Subscriber(s) Using the SYS;MAUTH Message
 061-287-1033 Re-synchronize with a Subscriber Using the SYS;SERIAL or SYS;AUTHNT Message
 061-287-1945 Shutdown the Fire Direction System(LCU)
 061-287-5001 Prepare the Fire Direction System (FDS) for Operation
 061-287-5002 Initialize the Fire Direction System (FDS)
 061-287-5003 Process Map Modification Message(s)
 061-287-5008 Process Request Messages
 061-287-5010 Process Multiple Launch Rocket System (MLRS) Fire Plan(s)

Enlisted MOS: 13P Skill Level: 2

Individual Task(s)
 061-287-1044 Shutdown and Restart the Fire Direction Data Manager Following a Power Failure
 061-287-1048 Perform Operator Maintenance on the Fire Direction Data Manager
 061-287-2032 Direct Operator Maintenance of the MLRS FDS
 061-287-2037 Direct Operator Maintenance of the MLRS Fire Direction Data Manager

061-287-2038	Direct Corrective Action on FDDM Error and Warning Messages
061-287-5009	Process Special Reports
061-287-5012	Verify Fire Direction System (FDS) Initialization
061-287-5014	Update BIOS Set-up Data
061-287-5015	Verify BIOS Set-up Data
061-287-5016	Verify Multiple Launch Rocket System (MLRS) Fire Direction System (FDS) Data Base

Enlisted MOS: 13P Skill Level: 3

Individual Task(s)

061-287-3057	Perform Disk Maintenance Functions Using the DPU;DISK Message
061-287-5023	Advice Supported Unit of MLRS Capabilities and Limitations.

Enlisted MOS: 13R Skill Level: 1

Individual Task(s)

113-587-2061	Operate Radio Set AN/VRC-64 or AN/GRC-160 with TSEC/KY-57
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Enlisted MOS: 54B Skill Level: 3

Individual Task(s)

113-587-2061	Operate Radio Set AN/VRC-64 or AN/GRC-160 with TSEC/KY-57
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Enlisted MOS: COM Skill Level: 2

Individual Task(s)

113-573-8006	USE AN AUTOMATED SIGNAL OPERATION INSTRUCTION (SOI)
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Enlisted MOS: COM Skill Level: 3

Individual Task(s)

113-572-4008	TRANSMIT A VOICE UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
113-572-5005	RECEIVE A VOICE UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
113-572-6005	WRITE A UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
113-572-6006	READ A UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE

Enlisted MOS: COM Skill Level: 4

Individual Task(s)

113-573-0002	CONDUCT OPERATIONS SECURITY (OPSEC) PROCEDURES
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06-2-A002 REINFORCE AND RESTORE THE UNIT PERIMETER

Enlisted MOS: COM Skill Level: 1

Individual Task(s)

071-311-2007	ENGAGE TARGETS WITH AN M16A1 OR M16A2 RIFLE
071-312-3031	ENGAGE TARGETS WITH AN M60 MACHINE GUN

071-325-4407	EMPLOY HAND GRENADES
071-326-0502	MOVE UNDER DIRECT FIRE
071-326-0503	MOVE OVER, THROUGH, OR AROUND OBSTACLES (EXCEPT MINEFIELDS)
071-326-0513	SELECT TEMPORARY FIGHTING POSITIONS
071-326-5703	CONSTRUCT INDIVIDUAL FIGHTING POSITIONS
071-331-0801	CHALLENGE PERSONS ENTERING YOUR AREA
181-906-1505	CONDUCT COMBAT OPERATIONS ACCORDING TO THE LAW OF WAR

Enlisted MOS: COM Skill Level: 3

Individual Task(s)

071-326-5705	ESTABLISH AN OBSERVATION POST
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Enlisted MOS: COM Skill Level: 4

Individual Task(s)

071-430-0006	CONDUCT A DEFENSE BY A PLATOON
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06-2-A003 OCCUPY A TACTICAL ASSEMBLY AREA**Enlisted MOS: 13B Skill Level: 1**

Individual Task(s)

061-275-8010	Use Field Wire Laying Techniques
071-022-0001	Perform Operator Maintenance on a Caliber .50 M2 Machine Gun
071-022-0003	Operate a Caliber .50 M2 Machine Gun
071-022-0010	Mount a Caliber .50 M2 Machine Gun on an M3 Tripod

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)

061-266-3313	Prepare Range Card(s) for a Howitzer
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Enlisted MOS: 13B Skill Level: 4

Individual Task(s)

061-266-4014	Prepare and Defend a Unit Against an Attack
061-266-4015	Conduct the Battery or Platoon Reconnaissance, Selection, and Occupation of a Position

Enlisted MOS: 13C Skill Level: 1

Individual Task(s)

061-275-8006	Operate as a Net Control Station (NCS)
061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals

Enlisted MOS: 13D Skill Level: 1

Individual Task(s)

061-275-8006	Operate as a Net Control Station (NCS)
061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals

Enlisted MOS: 13M Skill Level: 1

Individual Task(s)
061-310-8022 Operate the M985 and M989A1

Enlisted MOS: 13M Skill Level: 2

Individual Task(s)
061-310-8011 Perform Ground Reconnaissance of a Firing Platoon Area

Enlisted MOS: 13M Skill Level: 1

Individual Task(s)
061-310-8004 Operate the M993

Enlisted MOS: 13M Skill Level: 2

Individual Task(s)
061-310-8008 Enter Operational Area Data into the FCS

Enlisted MOS: 13P Skill Level: 1

Individual Task(s)
061-275-8004 Operate SINCGARS ICOM w/VIC-1
061-275-8006 Operate as a Net Control Station (NCS)
061-275-8009 Operate Mobile Subscriber Radio-Telephone Terminals

Enlisted MOS: 82C Skill Level: 1

Individual Task(s)
061-275-8009 Operate Mobile Subscriber Radio-Telephone Terminals

Enlisted MOS: COM Skill Level: 1

Individual Task(s)
071-312-3007 PREPARE A RANGE CARD FOR AN M60 MACHINE GUN
071-312-3027 LOAD AN M60 MACHINE GUN
071-312-3028 UNLOAD AN M60 MACHINE GUN
071-325-4425 EMPLOY AN M18A1 CLAYMORE MINE
071-325-4426 RECOVER AN M18A1 CLAYMORE MINE
071-326-0513 SELECT TEMPORARY FIGHTING POSITIONS
071-326-5703 CONSTRUCT INDIVIDUAL FIGHTING POSITIONS
071-331-0804 PERFORM SURVEILLANCE WITHOUT THE AID OF ELECTRONIC DEVICES
071-331-0815 PRACTICE NOISE, LIGHT, AND LITTER DISCIPLINE
071-331-0852 CLEAR A FIELD OF FIRE

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
031-503-2001 USE M256 OR M256A1 CHEMICAL AGENT DETECTOR KIT

Enlisted MOS: COM Skill Level: 3

Individual Task(s)

031-504-3001 SUPERVISE POSITIONING OF THE CHEMICAL AGENT ALARM
071-326-5705 ESTABLISH AN OBSERVATION POST

Enlisted MOS: COM Skill Level: 4

Individual Task(s)

071-326-5770 PREPARE A PLATOON SECTOR SKETCH

06-2-A005 PROVIDE ORGANIZATIONAL COMMUNICATIONS/ELECTRONICS MAINTENANCE SUPPORT

Enlisted MOS: COM Skill Level: 2

Individual Task(s)

113-573-8006 USE AN AUTOMATED SIGNAL OPERATION INSTRUCTION (SOI)

Enlisted MOS: COM Skill Level: 4

Individual Task(s)

113-573-0002 CONDUCT OPERATIONS SECURITY (OPSEC) PROCEDURES

06-2-A007 COORDINATE COMBAT SERVICE SUPPORT FOR A FIELD ARTILLERY BATTERY

Enlisted MOS: 77F Skill Level: 1

Individual Task(s)

101-519-1167 Prepare DA form 3643 (Daily issue of petroleum products)

Enlisted MOS: 92Y Skill Level: 1

Individual Task(s)

101-521-1154 RECEIVE SUPPLIES AND EQUIPMENT
101-521-1155 SUPPLIES AND EQUIPMENT TO HAND-RECEIPT HOLDERS

Enlisted MOS: 92Y Skill Level: 3

Individual Task(s)

101-521-3102 DISPOSE OF ABSENTEE'S CLOTHING, EQUIPMENT, AND PERSONAL EFFECTS
101-521-3105 DIRECT THE CONTROL AND SECURITY OF WEAPONS AND AMMUNITION IN UNIT STORAGE AREA
101-521-3252 CONTROL/SUPERVISE PROPERTY ADMINISTRATION IN UNIT SUPPORTED BY MANUAL/AUTOMATED SYSTEMS

Enlisted MOS: 92Y Skill Level: 4

Individual Task(s)

101-521-3101	ACCOUNT FOR ABSENTEE'S CLOTHING, EQUIPMENT, AND PERSONAL EFFECTS
101-521-3251	MAINTAIN MANUAL/AUTOMATED HAND RECEIPT

Enlisted MOS: COM Skill Level: 2

Individual Task(s)	
071-326-0515	SELECT A MOVEMENT ROUTE USING A MAP
071-329-1019	USE A MAP OVERLAY
081-831-0101	REQUEST MEDICAL EVACUATION
121-030-3534	REPORT CASUALTIES

Enlisted MOS: COM Skill Level: 4

Individual Task(s)	
071-332-5000	Prepare an Operation Overlay
081-831-0102	SUPERVISE UNIT PREVENTIVE MEDICINE AND FIELD SANITATION PROCEDURES

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)	
03-5101.00-0281	Direct the Preparation and Maintenance of Unit Supply Records
03-5101.00-0282	Direct the Storage of Unit Supplies, Weapons, Equipment, and Ammunition
03-5101.00-0283	Supervise the Maintenance of Unit Prescribed Load List

06-2-A022 DEFEND AGAINST AMBUSH

Enlisted MOS: COM Skill Level: 1

Individual Task(s)	
071-311-2007	ENGAGE TARGETS WITH AN M16A1 OR M16A2 RIFLE
071-312-3031	ENGAGE TARGETS WITH AN M60 MACHINE GUN
071-325-4407	EMPLOY HAND GRENADES
071-326-0502	MOVE UNDER DIRECT FIRE
071-326-0503	MOVE OVER, THROUGH, OR AROUND OBSTACLES (EXCEPT MINEFIELDS)
071-326-0513	SELECT TEMPORARY FIGHTING POSITIONS
551-721-1359	DRIVE VEHICLE IN A CONVOY
551-721-1408	IMPLEMENT DEFENSIVE PROCEDURES WHEN UNDER ENEMY ATTACK OR AMBUSH IN A TRUCK CONVOY

Enlisted MOS: COM Skill Level: 3

Individual Task(s)	
551-721-3348	PERFORM DUTIES AS SERIAL/MARCH UNIT COMMANDER
551-721-3352	DIRECT CONVOY DEFENSE OPERATIONS

Enlisted MOS: COM Skill Level: 4

Individual Task(s)	
071-326-3013	CONDUCT A TACTICAL ROAD MARCH

551-721-4326 PERFORM DUTIES AS CONVOY COMMANDER

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)	
04-3305.01-0005	Engage targets with an M16A1 or M16A2 Rifle
04-3305.01-0007	Employ Hand Grenades
04-3305.01-0008	Engage Targets with M72A2
04-3305.01-0009	Operate M60 Machine Gun
04-3305.01-0010	Engage Targets with an M60 Machine Gun
04-3305.01-0012	Operate an M249 Machine Gun
04-3305.01-0013	Engage Targets with an M249 Machine Gun
04-3306.01-0002	Move Under Direct Fire
04-3306.01-0003	Move Over, Through, or Around Obstacles (Except Minefields)

06-2-A066 CONDUCT BATTERY PRE/REDEPLOYMENT OPERATIONS

Enlisted MOS: COM Skill Level: 2

Individual Task(s)	
850-001-2001	ASSESS POTENTIAL FOR ACCIDENTS

Enlisted MOS: COM Skill Level: 3

Individual Task(s)	
071-328-5301	INSPECT PERSONNEL/EQUIPMENT

Officer MOS: 13A Skill Level: 1st Lieutenant

Individual Task(s)	
01-2999.99-0600	Command a Battery

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)	
03-9007.01-0020	Give Briefings
04-3304.01-0002	Conduct Inspection
04-8951.00-0832	Conduct Training
03-3711.12-0001	Implement Operations Security
03-4651.90-0001	Supervise Training and Licensing of Unit Equipment Operators
03-4976.90-0501	Prepare a Materiel Condition Status Report
03-9001.10-0004	Apply the Ethical Decision-Making Process as a Commander or Staff Officer
03-9001.13-0001	Solve Problems Using the Military Problem Solving Process

06-2-A078 PERFORM OPERATORS MAINTAINENCE ON COMMUNICATIONS EQUIPMENT

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)	
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061-275-8004 Operate SINGARS ICOM w/VIC-1

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)
113-587-2063 Operate Radio Set AN/VRC-43 or AN/VRC-46 with TSEC/KY-57

Enlisted MOS: 13C Skill Level: 3

Individual Task(s)
061-300-5019 Supervise Operation of TAFCS (AFATDS Units)

Enlisted MOS: 13E Skill Level: 1

Individual Task(s)
061-279-5003 Maintain Communication Using the AFC/DS

Enlisted MOS: 13P Skill Level: 1

Individual Task(s)
061-275-8016 Supervise the Operation of Improved High Frequency Radio (IHFR) Sets
061-275-8020 Supervise Field Artillery (FA) Automation/Communications System Operation
061-276-1010 Install Antenna Group OE-303
061-287-5010 Process Multiple Launch Rocket System (MLRS) Fire Plan(s)

Enlisted MOS: 13P Skill Level: 3

Individual Task(s)
061-287-5023 Advice Supported Unit of MLRS Capabilities and Limitations.
061-287-5024 Disseminate Fire Support Information to Lower, and Higher Field Artillery Elements.

Enlisted MOS: COM Skill Level: 3

Individual Task(s)
091-309-0710 SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES

Officer MOS: 13A Skill Level: 2nd Lieutenant

Individual Task(s)
091-900-0006 DIRECT UNIT MAINTENANCE OPERATIONS DURING UNIT OPERATIONS

06-2-A098 PREPARE FOR COMBAT

Officer MOS: 13A Skill Level: 1st Lieutenant

Individual Task(s)
01-2999.99-0600 Command a Battery

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)	
O1-9007.01-0250	Brief to Inform, Persuade, or Direct
O3-9001.10-0003	Apply the Ethical Decision-Making Process
O3-9001.10-0004	Apply the Ethical Decision-Making Process as a Commander or Staff Officer
O3-9001.12-0002	Communicate Effectively
O3-9001.12-0003	Communicate Effectively as a Commander or Staff Officer
S1-9011.04-0001	Command and Staff Functions

06-2-A099 DEVELOP AND COMMUNICATE A PLAN

Officer MOS: 13A Skill Level: 1st Lieutenant

Individual Task(s)	
01-2999.99-0600	Command a Battery

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)	
O1-9007.01-0250	Brief to Inform, Persuade, or Direct
O3-9001.10-0003	Apply the Ethical Decision-Making Process
O3-9001.10-0004	Apply the Ethical Decision-Making Process as a Commander or Staff Officer
O3-9001.12-0002	Communicate Effectively
O3-9001.12-0003	Communicate Effectively as a Commander or Staff Officer

06-2-C010 PERFORM RECONNAISSANCE OPERATIONS

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)	
071-329-1004	Determine the Elevation of a Point on the Ground Using a Map

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)	
071-329-1030	Navigate From One Point on the Ground to Another Point, Mounted

Enlisted MOS: COM Skill Level: 1

Individual Task(s)	
071-329-1000	Identify Topographic Symbols on a Military Map
071-329-1001	Identify Terrain Features on a Map
071-329-1002	Determine the Grid Coordinates of a Point on a Military Map

Enlisted MOS: COM Skill Level: 4

Individual Task(s)	
051-196-3065	PREPARE A ROUTE RECONNAISSANCE OVERLAY
071-326-3013	CONDUCT A TACTICAL ROAD MARCH

06-2-E001 CONDUCT AIRBORNE OPERATIONS

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)
061-266-3301 Direct the Preparation of a Howitzer for Firing

Enlisted MOS: COM Skill Level: 3

Individual Task(s)
071-326-5705 ESTABLISH AN OBSERVATION POST
071-328-5301 INSPECT PERSONNEL/EQUIPMENT

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
051-196-3065 PREPARE A ROUTE RECONNAISSANCE OVERLAY
551-721-4326 PERFORM DUTIES AS CONVOY COMMANDER

06-2-E002 CONDUCT AIR ASSAULT OPERATIONS

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)
061-266-3301 Direct the Preparation of a Howitzer for Firing

06-2-E003 CONDUCT AN AIR ASSAULT ARTILLERY RAID

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)
061-266-1101 Prepare a Position to Receive/Emplace a Howitzer (Advance Party)

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)
061-266-3301 Direct the Preparation of a Howitzer for Firing

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)
061-266-4000 Set-up and Recover the M2 or M2A2 Aiming Circle

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
071-326-5626 PREPARE AN ORAL OPERATION ORDER

071-332-5000 Prepare an Operation Overlay

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)
 04-3302.01-0003 Conduct a Reconnaissance
 04-3306.01-0008 Analyze Terrain

06-2-G010 PERFORM RECONNAISSANCE OPERATIONS (PALADIN UNITS)

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)
 071-329-1004 Determine the Elevation of a Point on the Ground Using a Map

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)
 071-329-1030 Navigate From One Point on the Ground to Another Point, Mounted

Enlisted MOS: COM Skill Level: 1

Individual Task(s)
 071-329-1000 Identify Topographic Symbols on a Military Map
 071-329-1001 Identify Terrain Features on a Map
 071-329-1002 Determine the Grid Coordinates of a Point on a Military Map

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
 051-196-3065 PREPARE A ROUTE RECONNAISSANCE OVERLAY
 071-326-3013 CONDUCT A TACTICAL ROAD MARCH

06-2-W107 CONDUCT AN ARTILLERY RAID

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)
 061-266-1105 Emplace and Recover Close-In Aiming Points
 061-266-1508 Prepare Ammunition for Firing
 061-266-1806 Lay and Measure a Howitzer for Quadrant with the Range Quadrant. (Except M119)
 061-275-8004 Operate SINCGARS ICOM w/VIC-1

Enlisted MOS: 13B Skill Level: 2

Individual Task(s)
 061-266-2001 Align Close in Aiming Points Using the M100-Series Panoramic Telescope
 061-266-2002 Lay a Howitzer for Initial Direction of Fire by Reciprocal Lay by Using the Panoramic Telescope

061-266-2003	Lay a Howitzer for Initial Direction of Fire Without an Aiming Circle by Using the Panoramic Telescope
061-266-2004	Lay a Howitzer for Initial Direction of Fire by Using the Panoramic Telescope
061-266-2006	Lay a Howitzer for Deflection Using the Panoramic Telescope
061-266-2231	Refer the Piece
061-266-2238	Establish a Distant Aiming Point (DAP)
061-281-2005	Lay and Measure a Howitzer for Quadrant with the Range Quadrant (M119)
061-281-2006	Fire a Prepared Round (M119)

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)

061-266-3301	Direct the Preparation of a Howitzer for Firing
061-266-3305	Determine Site and Range to Crest
061-266-3315	Determine that Howitzer Data is Safe to Fire.
061-266-3318	Lay for Quadrant with the Gunner's Quadrant
061-266-3319	Measure the Quadrant with the Gunner's Quadrant
061-268-3430	Perform Prefire Checks (M102)
061-270-3430	Perform Prefire Checks (M109A2-A5)
061-271-3430	Perform Prefire Checks (M198)
061-281-3430	Perform Prefire Checks (M119)
061-307-3430	Perform Prefire Checks (M109A6)
113-610-2044	Navigate Using the AN/ PSN-11

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)

061-266-4008	Determine and Report the Azimuth of the Line of Fire
061-266-4020	Determine and Report the Correct Deflection
061-320-5307	Establish Survey Control Using the Guy Laying Positioning System (GLPS)

Enlisted MOS: 13C Skill Level: 1

Individual Task(s)

061-275-8004	Operate SINCGARS ICOM w/VIC-1
061-300-5005	Update TAFCS Map Functions (AFATDS Units)
061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
061-300-5007	Update Unit Data in TAFCS (AFATDS Units)

Enlisted MOS: 13C Skill Level: 2

Individual Task(s)

061-300-5015	Process Target Information (AFATDS Units)
061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)
061-300-5017	Process Schedule of Fires (AFATDS Units)

Enlisted MOS: 13C Skill Level: 3

Individual Task(s)

061-300-5021	Set Mission Critical List (AFATDS Units)
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Enlisted MOS: 13C Skill Level: 4

Individual Task(s)
061-300-5027 Conduct the Field Artillery Estimate (AFATDS Units)

Enlisted MOS: 13D Skill Level: 1

Individual Task(s)
061-275-8004 Operate SINCGARS ICOM w/VIC-1
061-300-5002 Establish TAFCS Communications Configurations (AFATDS Units)
061-300-5005 Update TAFCS Map Functions (AFATDS Units)
061-300-5006 Process Geometry Data in the TAFCS (AFATDS Units)
061-300-5007 Update Unit Data in TAFCS (AFATDS Units)
061-300-5015 Process Target Information (AFATDS Units)
061-300-5016 Process Fire Mission with the TAFCS (AFATDS Units)

Enlisted MOS: 13D Skill Level: 2

Individual Task(s)
061-300-5017 Process Schedule of Fires (AFATDS Units)

Enlisted MOS: 13D Skill Level: 4

Individual Task(s)
061-300-5027 Conduct the Field Artillery Estimate (AFATDS Units)

Enlisted MOS: 13E Skill Level: 1

Individual Task(s)
061-275-8004 Operate SINCGARS ICOM w/VIC-1
061-300-5005 Update TAFCS Map Functions (AFATDS Units)
061-300-5007 Update Unit Data in TAFCS (AFATDS Units)

Enlisted MOS: 13E Skill Level: 2

Individual Task(s)
061-300-5015 Process Target Information (AFATDS Units)
061-300-5016 Process Fire Mission with the TAFCS (AFATDS Units)
061-300-5028 Enter Meteorological Guidance in the TAFCS (AFATDS UNITS)

Enlisted MOS: 13E Skill Level: 3

Individual Task(s)
061-300-5021 Set Mission Critical List (AFATDS Units)

Enlisted MOS: 13F Skill Level: 1

Individual Task(s)
061-275-8004 Operate SINCGARS ICOM w/VIC-1
061-300-5005 Update TAFCS Map Functions (AFATDS Units)
061-300-5006 Process Geometry Data in the TAFCS (AFATDS Units)
061-300-5007 Update Unit Data in TAFCS (AFATDS Units)

061-300-5021 Set Mission Critical List (AFATDS Units)
113-610-2044 Navigate Using the AN/ PSN-11

Enlisted MOS: 13F Skill Level: 3

Individual Task(s)
061-300-5015 Process Target Information (AFATDS Units)
061-300-5016 Process Fire Mission with the TAFCS (AFATDS Units)
061-300-5017 Process Schedule of Fires (AFATDS Units)

Enlisted MOS: 13F Skill Level: 4

Individual Task(s)
061-300-5027 Conduct the Field Artillery Estimate (AFATDS Units)

Enlisted MOS: 13M Skill Level: 1

Individual Task(s)
061-275-8004 Operate SINCGARS ICOM w/VIC-1
061-310-8004 Operate the M993
061-310-8021 Operate the M993 During a Fire Mission
113-610-2044 Navigate Using the AN/ PSN-11

Enlisted MOS: 13M Skill Level: 2

Individual Task(s)
061-310-2001 Perform SRP/PDS Operations
061-310-2021 Perform a Fire Mission
061-310-2022 Edit/Input FCS Data
061-310-8007 Update Weapon Files

Enlisted MOS: 13M Skill Level: 3

Individual Task(s)
061-310-3011 Select a Launcher Firing Position
061-310-3024 Direct a Fire Mission

Enlisted MOS: 13M Skill Level: 4

Individual Task(s)
061-310-8025 Supervise the Firing Capability of a MLRS Platoon

Enlisted MOS: 13P Skill Level: 1

Individual Task(s)
061-275-8004 Operate SINCGARS ICOM w/VIC-1
061-287-1973 Process MLRS Fire Mission (s)
061-288-5104 Process MLRS Fire Mission (s) (Version 11)

Enlisted MOS: 13P Skill Level: 2

Individual Task(s)
 061-287-5013 Verify Fire Mission(s) / Fire Plan(s)
 061-288-5203 Verify Fire Mission(s)/ Fire Plan(s) (Version 11)

Enlisted MOS: 13P Skill Level: 3

Individual Task(s)
 061-287-5021 Control the Conduct of MLRS Fire Mission(s)
 061-288-5304 Control the Conduct of MLRS Fire Mission(s)(Version 11)

Enlisted MOS: 13P Skill Level: 4

Individual Task(s)
 061-287-5019 Manage MLRS Fire Mission(s)
 061-288-5402 Manage MLRS Fire Mission (s) (Version 11)

Enlisted MOS: 82C Skill Level: 1

Individual Task(s)
 113-610-2044 Navigate Using the AN/ PSN-11

06-2-W109 ESTABLISH AND MAINTAIN A BATTERY/PLATOON OPERATIONS AND FIRE DIRECTION CENTERS

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)
 551-721-3334 Supervise Preventive Maintenance Checks and Services (PMCS)

Enlisted MOS: 13C Skill Level: 1

Individual Task(s)
 061-299-5005 Process Meteorological Data
 061-300-5005 Update TAFCS Map Functions (AFATDS Units)
 061-300-5006 Process Geometry Data in the TAFCS (AFATDS Units)
 061-300-5007 Update Unit Data in TAFCS (AFATDS Units)

Enlisted MOS: 13C Skill Level: 2

Individual Task(s)
 061-300-5009 Perform Troubleshooting Procedures on the TAFCS (AFATDS Units)
 061-300-5013 Enter the Commander's Guidance into the TAFCS (AFATDS Units)

Enlisted MOS: 13C Skill Level: 3

Individual Task(s)
 061-275-8015 Supervise SINGARS Net Control Station (NCS) Procedures
 061-300-5018 Supervise Preparation of TAFCS (AFATDS Units)
 061-300-5019 Supervise Operation of TAFCS (AFATDS Units)
 061-300-5021 Set Mission Critical List (AFATDS Units)

Enlisted MOS: 13C Skill Level: 4

Individual Task(s)

061-300-5026 Plan an Operational Move with the TAFCS (AFATDS Units)

Enlisted MOS: 13D Skill Level: 1

Individual Task(s)

061-299-5005 Process Meteorological Data
061-300-5000 Prepare the TAFCS for Operation (AFATDS Units)
061-300-5001 Configure the TAFCS Database (AFATDS Units)
061-300-5002 Establish TAFCS Communications Configurations (AFATDS Units)
061-300-5003 Incorporate the Printer into the TAFCS (AFATDS Units)
061-300-5004 Perform TAFCS Software Utility Functions (AFATDS Units)
061-300-5005 Update TAFCS Map Functions (AFATDS Units)
061-300-5006 Process Geometry Data in the TAFCS (AFATDS Units)
061-300-5007 Update Unit Data in TAFCS (AFATDS Units)
061-300-5009 Perform Troubleshooting Procedures on the TAFCS (AFATDS Units)
061-300-5013 Enter the Commander's Guidance into the TAFCS (AFATDS Units)
071-329-1014 Locate an Unknown Point on a Map and on the Ground by Intersection
071-329-1015 Locate an Unknown Point on a Map and on the Ground by Resection

Enlisted MOS: 13D Skill Level: 2

Individual Task(s)

061-275-8015 Supervise SINGARS Net Control Station (NCS) Procedures
061-300-5018 Supervise Preparation of TAFCS (AFATDS Units)
061-300-5019 Supervise Operation of TAFCS (AFATDS Units)

Enlisted MOS: 13D Skill Level: 3

Individual Task(s)

061-279-5017 Maintain Operational Graphics on a Map

Enlisted MOS: 13D Skill Level: 4

Individual Task(s)

061-299-5015 Write the Automated Fire Support Tab to the Fire Support Plan of an OPORD
061-300-5026 Plan an Operational Move with the TAFCS (AFATDS Units)

Enlisted MOS: 13E Skill Level: 1

Individual Task(s)

061-279-5000 Prepare the AFC/DS for Operation
061-279-5003 Maintain Communication Using the AFC/DS
061-279-5100 Identify Message Formats from the SYS;MSGSUM
061-280-5000 Prepare to Process Fire Mission in Degraded Mode (Manual)
061-280-5007 Perform FDC Advance Party Procedures
061-300-5005 Update TAFCS Map Functions (AFATDS Units)
061-300-5007 Update Unit Data in TAFCS (AFATDS Units)

Enlisted MOS: 13E Skill Level: 2

Individual Task(s)

061-279-5005	Process an Area Fire Mission with the AFC/DS
061-279-5007	Process a Priority Fire Mission using the AFC/DS
061-279-5008	Process Registrations with the AFC/DS
061-300-5009	Perform Troubleshooting Procedures on the TAFCS (AFATDS Units)

Enlisted MOS: 13E Skill Level: 3

Individual Task(s)

061-279-5014	Supervise Operation of the AFC/DS
061-279-5017	Maintain Operational Graphics on a Map
061-280-5006	Compute Muzzle Velocity Information (Manual)
061-300-5018	Supervise Preparation of TAFCS (AFATDS Units)
061-300-5019	Supervise Operation of TAFCS (AFATDS Units)
061-300-5021	Set Mission Critical List (AFATDS Units)
551-721-3334	Supervise Preventive Maintenance Checks and Services (PMCS)

Enlisted MOS: 13F Skill Level: 1

Individual Task(s)

061-299-5000	Prepare TAFCS for Operation
061-299-5002	Maintain Support Data
061-299-5004	Maintain TAFCS Communications
061-300-5000	Prepare the TAFCS for Operation (AFATDS Units)
061-300-5001	Configure the TAFCS Database (AFATDS Units)
061-300-5005	Update TAFCS Map Functions (AFATDS Units)
061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
061-300-5021	Set Mission Critical List (AFATDS Units)
071-329-1014	Locate an Unknown Point on a Map and on the Ground by Intersection
071-329-1015	Locate an Unknown Point on a Map and on the Ground by Resection

Enlisted MOS: 13F Skill Level: 3

Individual Task(s)

061-299-5006	Perform Continuity of Operations
061-299-5009	Process Artillery Target Intelligence Data
061-300-5009	Perform Troubleshooting Procedures on the TAFCS (AFATDS Units)
061-300-5013	Enter the Commander's Guidance into the TAFCS (AFATDS Units)

Enlisted MOS: 13F Skill Level: 4

Individual Task(s)

061-300-5026	Plan an Operational Move with the TAFCS (AFATDS Units)
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Enlisted MOS: 13P Skill Level: 1

Individual Task(s)

061-275-8004	Operate SINCGARS ICOM w/VIC-1
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061-275-8006	Operate as a Net Control Station (NCS)
061-275-8008	Operate Improved High Frequency Radio (IHFR) Sets
061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals
061-287-1031	Power up and Initialize the Fire Direction Data Manager (FDDM)
061-287-1032	Process Multiple Authenticators for a Subscriber(s) Using the SYS;MAUTH Message
061-287-1033	Re-synchronize with a Subscriber Using the SYS;SERIAL or SYS;AUTHNT Message
061-287-1034	Process Target Element Data and their Target Type/Subtype Association using SPRT;TEDE Message
061-287-1035	Process Commander's Criteria Modification Using the FM;CMDMOD Message
061-287-1036	Process Meteorological Data Using MET;FPTLL or MET;CW Message
061-287-1039	Process Fire Mission Schedule Assets Data Using the SCD;ASSETS Message
061-287-1041	Process Next Scheduled Fire Mission Task Assignment using the SCD;NXTTSK Message
061-287-1042	Process DPU Data Base Summary Information
061-287-1045	Record the Fire Direction Data Manager Data Base
061-287-5001	Prepare the Fire Direction System (FDS) for Operation
061-287-5004	Maintain Operational Graphics on a Map
061-288-5101	Prepare the Fire Direction System (FDS) for Operation (Version 11)
061-288-5102	Maintain Operational Graphics on a Map (Version 11)
061-288-5105	Initialize the Fire Direction System (FDS) (Version 11)
061-288-5107	Process Meteorological Data (Version 11)
061-288-5108	Process Battlefield Geometry (Version 11)
061-288-5109	Process Ammunition/ Fire Unit Message(s)
061-288-5112	Process Commander's Criteria Modification message (Version 11)
061-288-5116	Process Target Element Data (Version 11)

Enlisted MOS: 13P Skill Level: 2

Individual Task(s)

061-275-8020	Supervise Field Artillery (FA) Automation/Communications System Operation
061-287-1039	Process Fire Mission Schedule Assets Data Using the SCD;ASSETS Message
061-287-1041	Process Next Scheduled Fire Mission Task Assignment using the SCD;NXTTSK Message
061-287-2032	Direct Operator Maintenance of the MLRS FDS
061-287-5004	Maintain Operational Graphics on a Map
061-287-5014	Update BIOS Set-up Data
061-288-5102	Maintain Operational Graphics on a Map (Version 11)
061-288-5200	Direct Operator Maintenance of the MLRS Fire Direction System (Version 11)
061-288-5204	Update BIOS Set-up Data (Version 11)

Enlisted MOS: 13P Skill Level: 3

Individual Task(s)

061-275-8015	Supervise SINGARS Net Control Station (NCS) Procedures
061-275-8016	Supervise the Operation of Improved High Frequency Radio (IHFR) Sets
061-275-8020	Supervise Field Artillery (FA) Automation/Communications System Operation
061-287-1042	Process DPU Data Base Summary Information
061-287-1045	Record the Fire Direction Data Manager Data Base
061-287-3056	Direct the Maintenance of the MLRS FDDM Data Base
061-287-5022	Control the Input to an MLRS Database
061-288-5300	Control the Input to an MLRS Database (Version 11)

Enlisted MOS: 13R Skill Level: 4

Individual Task(s)
 061-275-8015 Supervise SINCGARS Net Control Station (NCS) Procedures

Enlisted MOS: 82C Skill Level: 3

Individual Task(s)
 061-275-8015 Supervise SINCGARS Net Control Station (NCS) Procedures

Enlisted MOS: 93F Skill Level: 3

Individual Task(s)
 551-721-3334 Supervise Preventive Maintenance Checks and Services (PMCS)

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
 071-329-1004 Determine the Elevation of a Point on the Ground Using a Map
 071-329-1014 Locate an Unknown Point on a Map and on the Ground by Intersection
 071-329-1015 Locate an Unknown Point on a Map and on the Ground by Resection

06-3-A000 PLAN AND CONDUCT DEFENSE AND SECURITY OF THE BATTERY/PLATOON AREA AND MATERIAL

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)
 071-022-0003 Operate a Caliber .50 M2 Machine Gun
 071-312-3004 Construct a Fighting Position for an M60 Machine Gun
 071-313-3455 Set Headspace and Timing on a Caliber .50 Machine Gun

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)
 061-306-6004 Perform Crater and Shell Fragment Analysis
 061-306-6005 Prepare and/or Submit Standard Shelling, Mortaring, and Bombing Report

Enlisted MOS: 92Y Skill Level: 1

Individual Task(s)
 101-521-1163 Prepare and Maintain a Document Register

Enlisted MOS: COM Skill Level: 1

Individual Task(s)
 071-311-2007 ENGAGE TARGETS WITH AN M16A1 OR M16A2 RIFLE
 071-311-2027 LOAD AN M16A1 OR M16A2 RIFLE
 071-312-3003 LAY AN M60 MACHINE GUN USING FIELD EXPEDIENTS

071-312-3007	PREPARE A RANGE CARD FOR AN M60 MACHINE GUN
071-312-3027	LOAD AN M60 MACHINE GUN
071-312-3031	ENGAGE TARGETS WITH AN M60 MACHINE GUN
071-325-4425	EMPLOY AN M18A1 CLAYMORE MINE
071-326-0513	SELECT TEMPORARY FIGHTING POSITIONS
071-331-0801	CHALLENGE PERSONS ENTERING YOUR AREA
071-331-0804	PERFORM SURVEILLANCE WITHOUT THE AID OF ELECTRONIC DEVICES
071-331-0815	PRACTICE NOISE, LIGHT, AND LITTER DISCIPLINE
071-331-0852	CLEAR A FIELD OF FIRE
181-906-1505	CONDUCT COMBAT OPERATIONS ACCORDING TO THE LAW OF WAR
551-721-1408	IMPLEMENT DEFENSIVE PROCEDURES WHEN UNDER ENEMY ATTACK OR AMBUSH IN A TRUCK CONVOY

Enlisted MOS: COM Skill Level: 2

Individual Task(s)

071-329-1019	USE A MAP OVERLAY
081-831-0101	REQUEST MEDICAL EVACUATION
441-091-1040	VISUALLY IDENTIFY THREAT AIRCRAFT

Enlisted MOS: COM Skill Level: 3

Individual Task(s)

071-326-5705	ESTABLISH AN OBSERVATION POST
441-091-3001	DIRECT UNIT AIR DEFENSE

Enlisted MOS: COM Skill Level: 4

Individual Task(s)

071-326-5770	PREPARE A PLATOON SECTOR SKETCH
071-326-5775	COORDINATE WITH AN ADJACENT PLATOON

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)

01-5700.01-0001	Communicate on a Tactical Radio
04-3301.01-0013	Defend a Squad/Platoon Position
04-3303.01-0019	Use a Map Overlay
04-3305.01-0005	Engage targets with an M16A1 or M16A2 Rifle
04-3305.01-0006	Employ M18A1 Claymore
04-3305.01-0009	Operate M60 Machine Gun
04-3305.01-0010	Engage Targets with an M60 Machine Gun
04-3305.01-0011	Prepare a Range Card for an M60 Machine Gun
04-3305.01-0012	Operate an M249 Machine Gun
04-3305.01-0013	Engage Targets with an M249 Machine Gun
04-3306.01-0006	Use Challenge and Password
04-3301.02-0012	Defend a Platoon Position

06-3-A004 COMMAND AND CONTROL BATTERY/PLATOON/SECTION MOVEMENT OPERATIONS

Enlisted MOS: 13P Skill Level: 4

Individual Task(s)
 061-287-5017 Verify Reporting of Tactical Platoon Status

Enlisted MOS: COM Skill Level: 1

Individual Task(s)
 071-329-1008 Measure Distance on a Map
 071-329-1012 ORIENT A MAP TO THE GROUND BY MAP TERRAIN ASSOCIATION
 551-721-1359 DRIVE VEHICLE IN A CONVOY
 551-721-1363 DRIVE VEHICLE WITH OR WITHOUT TRAILER/SEMITRAILER IN BLACKOUT
 CONDITIONS

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
 071-329-1019 USE A MAP OVERLAY
 850-001-2001 ASSESS POTENTIAL FOR ACCIDENTS

Enlisted MOS: COM Skill Level: 3

Individual Task(s)
 071-331-0820 ANALYZE TERRAIN
 551-721-3352 DIRECT CONVOY DEFENSE OPERATIONS

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
 051-196-3065 PREPARE A ROUTE RECONNAISSANCE OVERLAY
 071-326-3013 CONDUCT A TACTICAL ROAD MARCH
 071-326-5626 PREPARE AN ORAL OPERATION ORDER
 071-326-5630 CONDUCT MOVEMENT TECHNIQUES BY A PLATOON
 071-326-5805 CONDUCT A ROUTE RECONNAISSANCE MISSION
 071-332-5000 Prepare an Operation Overlay
 071-720-0015 CONDUCT AN AREA RECONNAISSANCE BY A PLATOON
 551-721-3359 PREPARE A STRIP MAP
 551-721-4326 PERFORM DUTIES AS CONVOY COMMANDER

Officer MOS: 13A Skill Level: 1st Lieutenant

Individual Task(s)
 01-2999.99-0600 Command a Battery

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)
 O3-4651.90-0001 Supervise Training and Licensing of Unit Equipment Operators

06-3-B003 CONDUCT OCCUPATION OF POSITION AREA (NON PALADIN UNITS)

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)

- 061-266-1101 Prepare a Position to Receive/Emplace a Howitzer (Advance Party)
- 061-271-1212 Boresight the Direct Fire Telescope by Using a Distant Aiming Point. (DAP) (M198)

Enlisted MOS: 13B Skill Level: 2

Individual Task(s)

- 061-266-2002 Lay a Howitzer for Initial Direction of Fire by Reciprocal Lay by Using the Panoramic Telescope
- 061-266-2003 Lay a Howitzer for Initial Direction of Fire Without an Aiming Circle by Using the Panoramic Telescope

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)

- 061-271-3430 Perform Prefire Checks (M198)

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)

- 061-266-4000 Set-up and Recover the M2 or M2A2 Aiming Circle
- 061-266-4006 Orient the M2 or M2A2 Aiming Circle and Lay the Battery or Platoon
- 061-266-4009 Compute Position Minimum Quadrant Elevation (Min QE)
- 061-266-4011 Prepare and Submit Weapons Location Data Card
- 061-266-4014 Prepare and Defend a Unit Against an Attack
- 061-266-4015 Conduct the Battery or Platoon Reconnaissance, Selection, and Occupation of a Position

Enlisted MOS: 13E Skill Level: 1

Individual Task(s)

- 061-280-5007 Perform FDC Advance Party Procedures

06-3-C001 DIRECT AND CONTROL FIRING BATTERY/PLATOON OPERATIONS (CANNON)

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)

- 061-266-4024 Monitor Howitzer Sections During Firing

06-3-C002 CONDUCT EMERGENCY MISSIONS

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)

- 061-268-1214 Boresight the Direct Fire Telescope (M102)
- 061-268-1507 Load and Fire a Prepared Round (M102)
- 061-270-1507 Load and Fire a Prepare Round (M109A2-A5)

061-271-1507 Load and Fire a Prepared Round (M198)
 061-281-1543 Load a Prepared Round (M119)

Enlisted MOS: 13B Skill Level: 2

Individual Task(s)

061-266-2002 Lay a Howitzer for Initial Direction of Fire by Reciprocal Lay by Using the Panoramic Telescope
 061-266-2004 Lay a Howitzer for Initial Direction of Fire by Using the Panoramic Telescope
 061-266-2006 Lay a Howitzer for Deflection Using the Panoramic Telescope
 061-266-2237 Supervise the Preparation of Ammunition for Firing
 061-281-2006 Fire a Prepared Round (M119)

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)

061-266-3305 Determine Site and Range to Crest
 061-266-3315 Determine that Howitzer Data is Safe to Fire.
 061-307-3555 Prepare the M109A6 for Firing Using the Automatic Fire Control System (AFCS)
 061-307-3560 Conduct Indirect Fire Missions Using the Automatic Fire Control System (M109A6)

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)

061-266-4006 Orient the M2 or M2A2 Aiming Circle and Lay the Battery or Platoon
 061-266-4007 Lay the Battery or Platoon by Using Alternate Methods of Lay

06-3-C011 PERFORM HASTY SURVEY**Enlisted MOS: 13B Skill Level: 4**

Individual Task(s)

061-266-4000 Set-up and Recover the M2 or M2A2 Aiming Circle
 061-266-4002 Establish the Azimuth of the Orienting Line (OL) by Using the Polaris-Kochab Methods
 061-266-4003 Establish the Azimuth of the Orienting Line (OL) by Using Directional Traverse
 061-266-4004 Determine Location by Graphic Resection by Using an M2 or M2A2 Aiming Circle
 061-266-4005 Perform Simultaneous Observation
 061-266-4010 Transfer the Orienting Station (ORSTA) and the End of the Orienting Line (EOL) by Using Graphic Traverse

Enlisted MOS: COM Skill Level: 1

Individual Task(s)

071-329-1000 Identify Topographic Symbols on a Military Map
 071-329-1001 Identify Terrain Features on a Map
 071-329-1002 Determine the Grid Coordinates of a Point on a Military Map

Enlisted MOS: COM Skill Level: 2

Individual Task(s)	
071-329-1004	Determine the Elevation of a Point on the Ground Using a Map
071-329-1009	Convert Azimuths

06-3-C013 MOVE A CANNON BATTERY OR PLATOON

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)	
061-266-1501	Load and Secure Ammunition in Preparation for Transporting
061-307-1602	Operate the AN/VSS-2 Driver's Night Vision Device (M109A6)

Enlisted MOS: 13B Skill Level: 2

Individual Task(s)	
061-357-2000	Direct the Preparation of the M992 Carrier Ammunition Tracked (CAT) for Operation

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)	
061-266-3501	Monitor Loading and Securing of Ammunition in Preparation for Transporting/Firing
551-721-3334	Supervise Preventive Maintenance Checks and Services (PMCS)

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)	
061-266-4000	Set-up and Recover the M2 or M2A2 Aiming Circle
061-266-4015	Conduct the Battery or Platoon Reconnaissance, Selection, and Occupation of a Position
113-573-4006	USE THE KTC 1400(*) NUMERAL CIPHER AND AUTHENTICATION SYSTEM
113-587-2061	Operate Radio Set AN/VRC-64 or AN/GRC-160 with TSEC/KY-57
113-587-2064	Operate Radio Set AN/VRC-12 or AN/VRC-47 with TSEC/KY-57

Enlisted MOS: 13E Skill Level: 1

Individual Task(s)	
061-280-5007	Perform FDC Advance Party Procedures

Enlisted MOS: 13E Skill Level: 2

Individual Task(s)	
061-279-5009	Process a Movement Order Using AFC/DS(M109A6)

Enlisted MOS: COM Skill Level: 1

Individual Task(s)	
071-329-1000	Identify Topographic Symbols on a Military Map
071-331-0815	PRACTICE NOISE, LIGHT, AND LITTER DISCIPLINE
551-721-1352	Perform Vehicle Preventive Maintenance Checks and Services (PMCS)

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
071-326-0515 SELECT A MOVEMENT ROUTE USING A MAP

Enlisted MOS: COM Skill Level: 3

Individual Task(s)
091-309-0710 SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
071-326-0515 SELECT A MOVEMENT ROUTE USING A MAP

Officer MOS: 13A Skill Level: 1st Lieutenant

Individual Task(s)
01-2999.99-0600 Command a Battery

Officer MOS: 13A Skill Level: Captain

Individual Task(s)
01-2999.99-0600 Command a Battery

Officer MOS: COM Skill Level: 2nd Lieutenant

Individual Task(s)
O4-3303.02-0014 Prepare Platoon or Company Combat Orders

06-3-G004 ESTABLISH FIRING CAPABILITY AT THE FIRING POSITION (PALADIN UNITS)

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)
061-307-3430 Perform Prefire Checks (M109A6)
061-307-3555 Prepare the M109A6 for Firing Using the Automatic Fire Control System (AFCS)
061-307-3557 Initialize the Automatic Fire Control System (M109A6)
061-307-3559 Operate the M109A6 Degraded Operations
061-307-3560 Conduct Indirect Fire Missions Using the Automatic Fire Control System (M109A6)

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)
061-307-4557 Verify Initialization Data (M109A6)

06-4-A001 MANAGE MAINTENANCE RECORDS AND SUBMIT REPORTS

Enlisted MOS: 63B Skill Level: 3

Individual Task(s)	
091-309-0633	PREPARE MATERIAL CONDITION STATUS REPORT
091-309-0671	INSPECT MOTOR EQUIPMENT UTILIZATION RECORD (DD FORM 1970)
091-309-0673	INSPECT PREVENTIVE MAINTENANCE RECORD SCHEDULE AND RECORD, DD FORM 314
091-309-0680	INSPECT RECORD OF DEMANDS
091-309-0685	PREPARE ACCIDENT REPORT (DA FORM 285)
091-309-0698	INSPECT UNIT DEMANDS SUMMARY LISTING (AUTOMATED)
091-309-0700	INSPECT RECONCILIATION LISTING (AUTOMATED)
091-309-2026	INSPECT OIL ANALYSIS REQUEST (DD FORM 2026)

06-4-A002 ESTABLISH AN ORGANIZATIONAL MAINTENANCE FACILITY

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)	
061-271-1475	Perform Maintenance of the Valve Selector Speed Shift, and Valve Wheels (M198) (U6)

Enlisted MOS: COM Skill Level: 2

Individual Task(s)	
850-001-2001	ASSESS POTENTIAL FOR ACCIDENTS

Enlisted MOS: COM Skill Level: 3

Individual Task(s)	
091-309-0710	SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES
091-309-0711	DIRECT VEHICLE AND EQUIPMENT RECOVERY OPERATIONS

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)	
O3-4376.04-0001	Evaluate Unit Calibration Program
O3-4651.90-0001	Supervise Training and Licensing of Unit Equipment Operators
O3-4966.90-0010	Supervise Preventive Maintenance Checks and Services
O3-4976.90-0501	Prepare a Materiel Condition Status Report
O3-5101.00-0283	Supervise the Maintenance of Unit Prescribed Load List

06-4-A003 MAINTAIN PETROLEUM, OILS, AND LUBRICANTS

Enlisted MOS: 77F Skill Level: 1

Individual Task(s)	
101-519-1167	Prepare DA form 3643 (Daily issue of petroleum products)

Enlisted MOS: 92Y Skill Level: 3

Individual Task(s)
 101-521-3252 CONTROL/SUPERVISE PROPERTY ADMINISTRATION IN UNIT SUPPORTED
 BY MANUAL/AUTOMATED SYSTEMS

06-4-C002 DETERMINE FIRING DATA

Enlisted MOS: 13E Skill Level: 1

Individual Task(s)
 061-275-8004 Operate SINGARS ICOM w/VIC-1

Enlisted MOS: 13E Skill Level: 2

Individual Task(s)
 061-279-5005 Process an Area Fire Mission with the AFC/DS
 061-279-5006 Process Special Fire Missions with the AFC/DS
 061-279-5007 Process a Priority Fire Mission using the AFC/DS
 061-279-5008 Process Registrations with the AFC/DS
 061-279-5012 Process a Fire Plan Target Using the AFC/DS(M109A6)
 061-279-5013 Process a Fire Plan Using the AFC/DS
 061-279-5018 Execute Schedule of Fires
 061-280-5002 Compute Special Fire Missions in a Degraded Mode (Manual)
 061-300-5016 Process Fire Mission with the TAFCS (AFATDS Units)

Enlisted MOS: 13E Skill Level: 3

Individual Task(s)
 061-279-5014 Supervise Operation of the AFC/DS
 061-279-5015 Supervise Fire Mission Processing with AFC/DS
 061-280-5003 Supervise Preparation of Fire Mission Processing in Degraded Mode (Manual)
 061-280-5004 Supervise Fire Mission Processing in Degraded Mode (Manual)

06-4-C003 CONDUCT FIRE MISSIONS

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)
 061-266-1102 Record and Maintain Fire Mission Data on a DA Form 4513-R (Record of
 Missions Fired)
 061-266-1508 Prepare Ammunition for Firing
 061-266-1515 Unpackage and Inspect the M712 and/or M823 Projectile (155-MM HOWITZER)
 061-266-1516 Prepare the M712 and/or M823 Projectile for Firing (155-MM HOWITZER)
 061-266-1806 Lay and Measure a Howitzer for Quadrant with the Range Quadrant. (Except
 M119)
 061-268-1217 Sight on a Target with the Direct Fire Telescope (M102)
 061-268-1507 Load and Fire a Prepared Round (M102)
 061-270-1217 Sight on a Target with the Direct Fire Telescope (M109A2-A5)
 061-270-1507 Load and Fire a Prepare Round (M109A2-A5)
 061-271-1217 Sight on a Target with the Direct Fire Telescope (M198)

061-271-1507 Load and Fire a Prepared Round (M198)
061-281-1543 Load a Prepared Round (M119)

Enlisted MOS: 13B Skill Level: 2

Individual Task(s)

061-266-2006 Lay a Howitzer for Deflection Using the Panoramic Telescope
061-266-2235 Sight on a Target During Direct Fire with the Panoramic Telescope
061-266-2237 Supervise the Preparation of Ammunition for Firing
061-281-2005 Lay and Measure a Howitzer for Quadrant with the Range Quadrant (M119)
061-281-2006 Fire a Prepared Round (M119)
061-281-2233 Sight on a Target During Direct Fire (M119)

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)

061-266-3300 Monitor Section Operations Involving the M712 or M823 Projectile (155-mm howitzer).
061-266-3301 Direct the Preparation of a Howitzer for Firing
061-266-3315 Determine that Howitzer Data is Safe to Fire.
061-266-3318 Lay for Quadrant with the Gunner's Quadrant
061-266-3319 Measure the Quadrant with the Gunner's Quadrant
061-266-3320 Issue Fire Orders for Direct Fire Mission
061-266-3321 Take Immediate Action for Misfire (Semifixed Ammunition)
061-266-3322 Take Immediate Action for Misfire (Seperate-Loading Ammunition)
061-266-3501 Monitor Loading and Securing of Ammunition in Preparation for Transporting/Firing
061-266-3705 Process a Fire Mission on the Gun Display (GDU)
061-266-3706 Process Special Situations on the Gun Display Unit (GDU)

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)

061-266-4020 Determine and Report the Correct Deflection
061-266-4024 Monitor Howitzer Sections During Firing

06-4-C004 MANAGE AND SUBMIT HOWITZER SECTION REPORTS

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)

061-266-1102 Record and Maintain Fire Mission Data on a DA Form 4513-R (Record of Missions Fired)

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)

061-266-3323 Maintain DA Form 2408-4 (Weapon Record Data Card)

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)
 061-266-4023 Verify Completion of DA Form 2408-4

06-4-C006 TRANSPORT AMMUNITION (FIRING BATTERY)

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)
 061-266-1501 Load and Secure Ammunition in Preparation for Transporting
 061-266-1510 Repackage the M712 and/or M823 Projectile (155-MM Howitzer)

Enlisted MOS: 13B Skill Level: 2

Individual Task(s)
 061-266-2236 Supervise the Loading and Securing of Howitzer Ammunition in Preparation for Transporting

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)
 061-266-3501 Monitor Loading and Securing of Ammunition in Preparation for Transporting/Firing

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)
 061-266-4019 Supervise Ammunition Operations

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
 071-326-0515 SELECT A MOVEMENT ROUTE USING A MAP

06-4-C008 STORE AMMUNITION (HOWITZER SECTION)

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)
 061-266-1501 Load and Secure Ammunition in Preparation for Transporting
 061-266-1510 Repackage the M712 and/or M823 Projectile (155-MM Howitzer)
 061-357-1019 Perform Ammunition Transfer Operations by Using the M992 Carrier Ammunition Tracked

Enlisted MOS: 13B Skill Level: 2

Individual Task(s)
 061-266-2236 Supervise the Loading and Securing of Howitzer Ammunition in Preparation for Transporting

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)
061-266-3501 Monitor Loading and Securing of Ammunition in Preparation for Transporting/Firing

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)
061-266-4019 Supervise Ammunition Operations

06-4-C009 UNLOAD THE HOWITZER

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)
061-266-1510 Repackage the M712 and/or M823 Projectile (155-MM Howitzer)
061-266-1511 Perform Extraction Procedures on the M712 and/or M823 Projectile (155-MM HOWITZER)

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)
061-266-3321 Take Immediate Action for Misfire (Semifixed Ammunition)
061-266-3322 Take Immediate Action for Misfire (Seperate-Loading Ammunition)

06-4-C010 DRAW CANNON AMMUNITION (BATTERY AMMUNITION SECTION)

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)
061-266-1501 Load and Secure Ammunition in Preparation for Transporting

Enlisted MOS: 13B Skill Level: 2

Individual Task(s)
061-266-2236 Supervise the Loading and Securing of Howitzer Ammunition in Preparation for Transporting

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)
061-266-3501 Monitor Loading and Securing of Ammunition in Preparation for Transporting/Firing

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)
061-266-4019 Supervise Ammunition Operations

06-4-C011 PREPARE AMMUNITION FOR AIR TRANSPORT**Enlisted MOS: 13B Skill Level: 1**

Individual Task(s)

061-266-1501 Load and Secure Ammunition in Preparation for Transporting

06-4-C012 PREPARE HOWITZER FOR CONDUCT OF FIRE MISSIONS (NON-PALADIN)**Enlisted MOS: 13B Skill Level: 1**

Individual Task(s)

061-266-1102 Record and Maintain Fire Mission Data on a DA Form 4513-R (Record of Missions Fired)

061-266-1105 Emplace and Recover Close-In Aiming Points

061-266-1508 Prepare Ammunition for Firing

061-266-2001 Align Close in Aiming Points Using the M100-Series Panoramic Telescope

Enlisted MOS: 13B Skill Level: 2

Individual Task(s)

061-266-2002 Lay a Howitzer for Initial Direction of Fire by Reciprocal Lay by Using the Panoramic Telescope

061-266-2003 Lay a Howitzer for Initial Direction of Fire Without an Aiming Circle by Using the Panoramic Telescope

061-266-2004 Lay a Howitzer for Initial Direction of Fire by Using the Panoramic Telescope

061-266-2005 Boresight the Panoramic Telescope by Using a Distant Aiming Point (DAP).

061-266-2006 Lay a Howitzer for Deflection Using the Panoramic Telescope

061-266-2231 Refer the Piece

061-266-2237 Supervise the Preparation of Ammunition for Firing

061-266-2238 Establish a Distant Aiming Point (DAP)

061-266-2239 Check the Boresight of the Panoramic Telescope with the M139 or M140 Alignment Device.

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)

061-266-3301 Direct the Preparation of a Howitzer for Firing

061-266-3305 Determine Site and Range to Crest

061-266-3313 Prepare Range Card(s) for a Howitzer

061-266-3315 Determine that Howitzer Data is Safe to Fire.

061-266-3319 Measure the Quadrant with the Gunner's Quadrant

061-266-3700 Mount and Maintain Gun Display Unit (GDU).

061-266-3705 Process a Fire Mission on the Gun Display (GDU)

061-268-3430 Perform Prefire Checks (M102)

061-270-3430 Perform Prefire Checks (M109A2-A5)

061-271-3430 Perform Prefire Checks (M198)

061-281-3430 Perform Prefire Checks (M119)

061-307-3430 Perform Prefire Checks (M109A6)

061-307-3554 Perform Fire Control Alignment Tests (M109A6)

061-307-3555 Prepare the M109A6 for Firing Using the Automatic Fire Control System (AFCS)

061-307-3557	Initialize the Automatic Fire Control System (M109A6)
061-307-3559	Operate the M109A6 Degraded Operations
061-307-3562	Perform Automatic Fire Control System Confidence Tests (M109A6)

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)

061-266-4006	Orient the M2 or M2A2 Aiming Circle and Lay the Battery or Platoon
061-266-4007	Lay the Battery or Platoon by Using Alternate Methods of Lay
061-307-4557	Verify Initialization Data (M109A6)

06-4-C015 CONDUCT DIRECT FIRE

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)

061-268-1217	Sight on a Target with the Direct Fire Telescope (M102)
061-270-1214	Boresight the Direct Fire Telescope (M109A2-A5)
061-270-1217	Sight on a Target with the Direct Fire Telescope (M109A2-A5)
061-271-1217	Sight on a Target with the Direct Fire Telescope (M198)

Enlisted MOS: 13B Skill Level: 2

Individual Task(s)

061-266-2235	Sight on a Target During Direct Fire with the Panoramic Telescope
061-281-2233	Sight on a Target During Direct Fire (M119)

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)

061-266-3320	Issue Fire Orders for Direct Fire Mission
061-268-1507	Load and Fire a Prepared Round (M102)
061-307-3556	Perform Direct Fire Using the Automatic Fire Control System (M109A6)

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)

061-266-4014	Prepare and Defend a Unit Against an Attack
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06-4-C017 ESTABLISH AZIMUTH BY SIMULTANEOUS OBSERVATION

Enlisted MOS: 82C Skill Level: 1

Individual Task(s)

061-275-8003	Operate SINCGARS ICOM
061-302-1026	Record Field Notes
061-302-1047	Compute an Azimuth From a Simultaneous Observation
061-302-1060	Measure Angles with a 0.2-MIL Theodolite
061-302-1061	Measure Angles with a 0.002-MIL Theodolite

061-302-5000 Perform an Astronomic Observation with a Theodolite
 061-302-5020 Compute a Hasty Astronomic Observation with the FED MSR

Enlisted MOS: 82C Skill Level: 3

Individual Task(s)
 061-275-8014 Supervise the Operation of SINCGARS

06-4-C018 ASSUME DIRECTIONAL CONTROL

Enlisted MOS: 82C Skill Level: 1

Individual Task(s)
 061-302-1040 Compute Azimuth and Distance From Known Coordinates
 071-510-0001 Determine Azimuth Using a Protractor

Enlisted MOS: 82C Skill Level: 4

Individual Task(s)
 061-302-4301 Plan a Survey Operation

Enlisted MOS: COM Skill Level: 1

Individual Task(s)
 071-329-1002 Determine the Grid Coordinates of a Point on a Military Map

06-4-C019 ESTABLISH AZIMUTH BY ASTRONOMIC OBSERVATION

Enlisted MOS: 82C Skill Level: 1

Individual Task(s)
 061-302-1026 Record Field Notes
 061-302-1045 Compute an Azimuth From a Sun or Star Altitude Observation
 061-302-1046 Compute an Azimuth From a Polaris Tabular Observation
 061-302-1048 Compute Grid Convergence
 061-302-1060 Measure Angles with a 0.2-MIL Theodolite
 061-302-1061 Measure Angles with a 0.002-MIL Theodolite
 061-302-1070 Compute Azimuth From an Artillery Astronomic Observation
 061-302-5000 Perform an Astronomic Observation with a Theodolite
 061-302-5019 Compute a Star ID with the FED MSR

Enlisted MOS: 82C Skill Level: 3

Individual Task(s)
 061-302-5006 Plan an Astronomic Observation
 061-302-5024 Check Survey Field Notes and Computations

06-4-G000 PERFORM A SURVIVABILITY MOVE (PALADIN ONLY)

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)

061-307-3561 Navigate from One Point on the Ground to Another Using the Automatic Fire Control System (M109A6)

Enlisted MOS: 13E Skill Level: 2

Individual Task(s)

061-279-5009 Process a Movement Order Using AFC/DS(M109A6)

06-4-G005 PERFORM FIRE MISSIONS IN DEGRADED MODE ON THE M109A6 PALADIN HOWITZER.

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)

061-266-1102 Record and Maintain Fire Mission Data on a DA Form 4513-R (Record of Missions Fired)
061-266-1105 Emplace and Recover Close-In Aiming Points
061-266-1508 Prepare Ammunition for Firing
061-266-1806 Lay and Measure a Howitzer for Quadrant with the Range Quadrant. (Except M119)
061-307-1601 Operate the Microclimate Conditioning System (M109A6)

Enlisted MOS: 13B Skill Level: 2

Individual Task(s)

061-266-2001 Align Close in Aiming Points Using the M100-Series Panoramic Telescope
061-266-2004 Lay a Howitzer for Initial Direction of Fire by Using the Panoramic Telescope
061-266-2231 Refer the Piece
061-266-2238 Establish a Distant Aiming Point (DAP)

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)

061-266-3301 Direct the Preparation of a Howitzer for Firing
061-266-3305 Determine Site and Range to Crest
061-266-3315 Determine that Howitzer Data is Safe to Fire.
061-266-3323 Maintain DA Form 2408-4 (Weapon Record Data Card)
061-266-4011 Prepare and Submit Weapons Location Data Card
061-307-3430 Perform Prefire Checks (M109A6)
061-307-3529 Adjust the Elevation System (M109A6)
061-307-3555 Prepare the M109A6 for Firing Using the Automatic Fire Control System (AFCS)
061-307-3557 Initialize the Automatic Fire Control System (M109A6)
061-307-3560 Conduct Indirect Fire Missions Using the Automatic Fire Control System (M109A6)

Enlisted MOS: 13B Skill Level: 4

Individual Task(s)

061-266-4020	Determine and Report the Correct Deflection
061-266-4023	Verify Completion of DA Form 2408-4
061-266-4024	Monitor Howitzer Sections During Firing
061-307-4557	Verify Initialization Data (M109A6)

06-4-G009 PROCESS FIRE MISSIONS ON THE M109A6 PALADIN HOWITZER**Enlisted MOS: 13B Skill Level: 2**

Individual Task(s)	
061-266-2237	Supervise the Preparation of Ammunition for Firing

Enlisted MOS: 13B Skill Level: 3

Individual Task(s)	
061-266-3322	Take Immediate Action for Misfire (Seperate-Loading Ammunition)
061-266-3501	Monitor Loading and Securing of Ammunition in Preparation for Transporting/Firing
061-307-3430	Perform Prefire Checks (M109A6)
061-307-3557	Initialize the Automatic Fire Control System (M109A6)
061-307-3560	Conduct Indirect Fire Missions Using the Automatic Fire Control System (M109A6)

06-4-V001 UPDATE PADS BY USING ASSUMED DATA**Enlisted MOS: 13M Skill Level: 1**

Individual Task(s)	
113-610-2044	Navigate Using the AN/ PSN-11

Enlisted MOS: 82C Skill Level: 1

Individual Task(s)	
061-302-1026	Record Field Notes
061-302-1060	Measure Angles with a 0.2-MIL Theodolite
061-302-1061	Measure Angles with a 0.002-MIL Theodolite
061-302-5002	Update the Position and Azimuth Determining System (PADS)
061-302-5003	Convert to Common Control
071-329-1004	Determine the Elevation of a Point on the Ground Using a Map

Enlisted MOS: 82C Skill Level: 2

Individual Task(s)	
061-302-2102	Evaluate Survey Information
061-302-5008	Plan a Position and Azimuth Determining System (PADS) Survey

Enlisted MOS: 82C Skill Level: 4

Individual Task(s)	
061-302-4301	Plan a Survey Operation

Enlisted MOS: COM Skill Level: 1

Individual Task(s)

071-329-1002	Determine the Grid Coordinates of a Point on a Military Map
071-329-1005	DETERMINE A LOCATION ON THE GROUND BY TERRAIN ASSOCIATION

Enlisted MOS: COM Skill Level: 2

Individual Task(s)

071-329-1015	Locate an Unknown Point on a Map and on the Ground by Resection
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06-4-V002 ESTABLISH SURVEY CONTROL BY THREE POINT RESECTION

Enlisted MOS: 82C Skill Level: 1

Individual Task(s)

061-302-1015	Compute Comparative Accuracy of Two Distances
061-302-1026	Record Field Notes
061-302-1044	Compute a Three-Point Resection
061-302-1060	Measure Angles with a 0.2-MIL Theodolite
061-302-1061	Measure Angles with a 0.002-MIL Theodolite
061-302-8001	Transmit Information Messages

Enlisted MOS: 82C Skill Level: 2

Individual Task(s)

061-302-2102	Evaluate Survey Information
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Enlisted MOS: 82C Skill Level: 3

Individual Task(s)

061-302-3203	Plan a Three-Point Resection
061-302-5024	Check Survey Field Notes and Computations

06-4-V003 USE PADS TO EXTEND SURVEY CONTROL

Enlisted MOS: 82C Skill Level: 1

Individual Task(s)

061-302-1013	Measure Distance with a 30-Meter Steel Tape
061-302-1014	Repair a 30-Meter Steel Tape
061-302-1015	Compute Comparative Accuracy of Two Distances
061-302-1026	Record Field Notes
061-302-1040	Compute Azimuth and Distance From Known Coordinates
061-302-1041	Compute a Traverse and Closing Data
061-302-1042	Compute an Intersection
061-302-1043	Compute a Chain of Triangles
061-302-1060	Measure Angles with a 0.2-MIL Theodolite

061-302-1061	Measure Angles with a 0.002-MIL Theodolite
061-302-1063	Mark Survey Positions with the Position and Azimuth Determining System (PADS)
061-302-1065	Compute Conversion and Transformation of Coordinates and Azimuth
061-302-1069	Prepare the Backup Computer System (BUCS) for Field Artillery Survey Observation
061-302-1070	Compute Azimuth From an Artillery Astronomic Observation
061-302-1132	Compute a Trig Traverse to Determine a Distance
061-302-1202	Measure Distance with the Survey Equipment, Distance Measuring, Electronic-Medium Range (SEDME-MR)
061-302-2179	Perform Operator Preventive Maintenance on the Position and Azimuth Determining System (PADS)
061-302-5000	Perform an Astronomic Observation with a Theodolite
061-302-5002	Update the Position and Azimuth Determining System (PADS)
061-302-5003	Convert to Common Control
061-302-5004	Perform Initialization of the Position and Azimuth Determining System (PADS)
061-302-5005	Transfer the Position and Azimuth Determining System (PADS) to a Helicopter
061-302-5050	Measure an Azimuth with the Azimuth GYRO
061-302-5051	Perform Operator Checks and Services on the Azimuth GYRO

Enlisted MOS: 82C Skill Level: 2

Individual Task(s)

061-302-2102	Evaluate Survey Information
061-302-2165	Install the Position and Azimuth Determining System (PADS) in a Vehicle
061-302-3307	Plan a Trig Traverse
061-302-5008	Plan a Position and Azimuth Determining System (PADS) Survey

Enlisted MOS: 82C Skill Level: 3

Individual Task(s)

061-302-3201	Plan a Traverse Scheme
061-302-3202	Plan a Triangulation or Intersection Scheme
061-302-3203	Plan a Three-Point Resection
061-302-3217	Determine Datum, Spheroid or Ellipsoid, and Grid System for Area of Operation
061-302-4301	Plan a Survey Operation
061-302-5007	Locate Traverse Error
061-302-5009	Check Conversion and Transformation Computations
061-302-5024	Check Survey Field Notes and Computations

Enlisted MOS: 82C Skill Level: 4

Individual Task(s)

061-302-4301	Plan a Survey Operation
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06-4-V004 SUBMIT SURVEY REPORTS AND COMBAT INFORMATION**Enlisted MOS: 13B Skill Level: 4**

Individual Task(s)

061-306-6004	Perform Crater and Shell Fragment Analysis
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Enlisted MOS: 82C Skill Level: 1

Individual Task(s)

061-275-8003	Operate SINCGARS ICOM
061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals
061-276-1011	Use SOI Extract
061-302-8001	Transmit Information Messages

Enlisted MOS: 82C Skill Level: 2

Individual Task(s)

061-302-2102	Evaluate Survey Information
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Enlisted MOS: 82C Skill Level: 3

Individual Task(s)

061-275-8014	Supervise the Operation of SINCGARS
061-275-8017	Supervise the Operation of Mobile Subscriber Terminal Equipment

Enlisted MOS: COM Skill Level: 1

Individual Task(s)

061-306-6005	Prepare and/or Submit Standard Shelling, Mortaring, and Bombing Report
301-348-1050	REPORT INFORMATION OF POTENTIAL INTELLIGENCE VALUE

Enlisted MOS: COM Skill Level: 3

Individual Task(s)

031-503-3005	PREPARE AND SUBMIT NBC 1 REPORTS
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Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)

03-3711.04-0001	Report Information of Potential Intelligence Value
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06-4-V005 PLAN AND EXECUTE SURVEY OPERATIONS

Enlisted MOS: 82C Skill Level: 1

Individual Task(s)

061-302-5028	Enter a New Survey Control Point in the FED MSR
061-302-5029	Update the Survey Control Point File in the FED MSR
061-302-5030	Process a Survey Search Request in the FED MSR

Enlisted MOS: 82C Skill Level: 2

Individual Task(s)

061-302-5008	Plan a Position and Azimuth Determining System (PADS) Survey
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Enlisted MOS: 82C Skill Level: 3

Individual Task(s)

061-302-3201	Plan a Traverse Scheme
061-302-3202	Plan a Triangulation or Intersection Scheme
061-302-3203	Plan a Three-Point Resection
061-302-3307	Plan a Trig Traverse
061-302-5027	Process a Survey Order with the FED MSR

Enlisted MOS: 82C Skill Level: 4

Individual Task(s)

061-302-4301	Plan a Survey Operation
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06-4-V006 ESTABLISH A DECLINATION STATION**Enlisted MOS: 13B Skill Level: 4**

Individual Task(s)

061-266-4013	Declinate the M2 or M2A2 Aiming Circle
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Enlisted MOS: 13D Skill Level: 1

Individual Task(s)

071-510-0001	Determine Azimuth Using a Protractor
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Enlisted MOS: 13F Skill Level: 1

Individual Task(s)

071-510-0001	Determine Azimuth Using a Protractor
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Enlisted MOS: 13P Skill Level: 1

Individual Task(s)

071-510-0001	Determine Azimuth Using a Protractor
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Enlisted MOS: 13R Skill Level: 1

Individual Task(s)

071-329-1002	Determine the Grid Coordinates of a Point on a Military Map
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Enlisted MOS: 13R Skill Level: 3

Individual Task(s)

061-266-4013	Declinate the M2 or M2A2 Aiming Circle
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Enlisted MOS: 82C Skill Level: 1

Individual Task(s)

071-074-0002	Determine a Grid Azimuth Using an M2 Compass
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071-510-0001 Determine Azimuth Using a Protractor

Enlisted MOS: 82C Skill Level: 2

Individual Task(s)
061-302-2181 Establish a Declination Station

06-4-V007 EXTEND AZIMUTH BY DIRECTIONAL TRAVERSE

Enlisted MOS: 82C Skill Level: 1

Individual Task(s)
061-302-1026 Record Field Notes
061-302-1040 Compute Azimuth and Distance From Known Coordinates
061-302-1041 Compute a Traverse and Closing Data
061-302-1060 Measure Angles with a 0.2-MIL Theodolite
061-302-1061 Measure Angles with a 0.002-MIL Theodolite

Enlisted MOS: 82C Skill Level: 3

Individual Task(s)
061-302-3201 Plan a Traverse Scheme

06-4-W108 CONTROL AND COORDINATE FIRE PLANS

Enlisted MOS: 13C Skill Level: 1

Individual Task(s)
061-300-5005 Update TAFCS Map Functions (AFATDS Units)
061-300-5006 Process Geometry Data in the TAFCS (AFATDS Units)
061-300-5007 Update Unit Data in TAFCS (AFATDS Units)
061-300-5008 Enter the Field Artillery Support Plan Text (AFATDS Units)

Enlisted MOS: 13C Skill Level: 2

Individual Task(s)
061-300-5015 Process Target Information (AFATDS Units)

Enlisted MOS: 13C Skill Level: 4

Individual Task(s)
061-299-5017 Decide to Attack a Target
061-299-5018 Issue a Fire Order
061-299-5019 Direct the Massing of Field Artillery Fires
061-300-5027 Conduct the Field Artillery Estimate (AFATDS Units)

Enlisted MOS: 13D Skill Level: 1

Individual Task(s)

061-300-5005	Update TAFCS Map Functions (AFATDS Units)
061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
061-300-5008	Enter the Field Artillery Support Plan Text (AFATDS Units)
061-300-5015	Process Target Information (AFATDS Units)

Enlisted MOS: 13D Skill Level: 3

Individual Task(s)	
061-299-5018	Issue a Fire Order

Enlisted MOS: 13D Skill Level: 4

Individual Task(s)	
061-299-5017	Decide to Attack a Target
061-299-5019	Direct the Massing of Field Artillery Fires
061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)

Enlisted MOS: 13E Skill Level: 1

Individual Task(s)	
061-300-5005	Update TAFCS Map Functions (AFATDS Units)
061-300-5007	Update Unit Data in TAFCS (AFATDS Units)

Enlisted MOS: 13E Skill Level: 2

Individual Task(s)	
061-300-5015	Process Target Information (AFATDS Units)
061-300-5028	Enter Meteorological Guidance in the TAFCS (AFATDS UNITS)

Enlisted MOS: 13F Skill Level: 1

Individual Task(s)	
061-299-5002	Maintain Support Data
061-300-5005	Update TAFCS Map Functions (AFATDS Units)
061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
061-300-5008	Enter the Field Artillery Support Plan Text (AFATDS Units)

Enlisted MOS: 13F Skill Level: 3

Individual Task(s)	
061-299-5007	Process Tactical Fire Control Data
061-299-5009	Process Artillery Target Intelligence Data
061-299-5010	Process Fire Planning
061-300-5015	Process Target Information (AFATDS Units)

Enlisted MOS: 13F Skill Level: 4

Individual Task(s)	
061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)

Enlisted MOS: 13P Skill Level: 1

Individual Task(s)

061-275-8006	Operate as a Net Control Station (NCS)
061-287-5004	Maintain Operational Graphics on a Map
061-287-5007	Process Ammunition/Fire Unit (AMMO/FU) Messages
061-287-5010	Process Multiple Launch Rocket System (MLRS) Fire Plan(s)
061-288-5102	Maintain Operational Graphics on a Map(Version 11)
061-288-5109	Process Ammunition/ Fire Unit Message(s)

Enlisted MOS: 13P Skill Level: 2

Individual Task(s)

061-287-5011	Verify Operational Graphics on a Map
061-287-5013	Verify Fire Mission(s) / Fire Plan(s)
061-287-5016	Verify Multiple Launch Rocket System (MLRS) Fire Direction System (FDS) Data Base
061-288-5201	Verify Operational Graphics on a Map(Version 11)
061-288-5205	Verify MLRS Fire Direction System Database (Version 11)

Enlisted MOS: 13P Skill Level: 3

Individual Task(s)

061-287-5020	Control MLRS Fire Plan(s)
061-287-5021	Control the Conduct of MLRS Fire Mission(s)
061-287-5022	Control the Input to an MLRS Database
061-287-5023	Advice Supported Unit of MLRS Capabilities and Limitations.
061-287-5024	Disseminate Fire Support Information to Lower, and Higher Field Artillery Elements.
061-288-5300	Control the Input to an MLRS Database(Version 11)
061-288-5303	Control MLRS Fire Plan(s)(Version 11)
061-288-5304	Control the Conduct of MLRS Fire Mission(s)(Version 11)
061-288-5305	Advice Supported Unit of MLRS Capabilities and Limitations(Version 11)
061-288-5306	Disseminate Fire Support Information to Lower, and Higher Field Artillery Elements(Version 11)
061-288-5401	Manage MLRS Fire Plan (s) (Version 11)
061-288-5402	Manage MLRS Fire Mission (s) (Version 11)

Enlisted MOS: 13P Skill Level: 4

Individual Task(s)

061-287-5017	Verify Reporting of Tactical Platoon Status
061-287-5018	Manage MLRS Fire Plan (s)
061-287-5019	Manage MLRS Fire Mission(s)
061-288-5400	Verify Reporting of Tactical Platoon Status (Version 11)
061-288-5404	Control MLRS Fire Direction Operations(Version 11)

06-5-A000 PERFORM OBSERVATION AND SURVEILLANCE

Enlisted MOS: COM Skill Level: 1

Individual Task(s)

071-311-2007	ENGAGE TARGETS WITH AN M16A1 OR M16A2 RIFLE
071-311-2027	LOAD AN M16A1 OR M16A2 RIFLE
071-311-2029	CORRECT MALFUNCTIONS OF AN M16A1 OR M16A2 RIFLE
071-312-3003	LAY AN M60 MACHINE GUN USING FIELD EXPEDIENTS
071-326-0511	REACT TO FLARES
071-326-0513	SELECT TEMPORARY FIGHTING POSITIONS
071-326-5703	CONSTRUCT INDIVIDUAL FIGHTING POSITIONS
071-329-1002	Determine the Grid Coordinates of a Point on a Military Map
071-331-0801	CHALLENGE PERSONS ENTERING YOUR AREA
071-331-0804	PERFORM SURVEILLANCE WITHOUT THE AID OF ELECTRONIC DEVICES
071-331-0815	PRACTICE NOISE, LIGHT, AND LITTER DISCIPLINE

Enlisted MOS: COM Skill Level: 3

Individual Task(s)

071-326-5705	ESTABLISH AN OBSERVATION POST
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06-5-A001 PERFORM CRATER ANALYSIS OPERATIONS**Enlisted MOS: 13B Skill Level: 4**

Individual Task(s)

061-266-4000	Set-up and Recover the M2 or M2A2 Aiming Circle
061-266-4008	Determine and Report the Azimuth of the Line of Fire
061-306-6004	Perform Crater and Shell Fragment Analysis
061-306-6005	Prepare and/or Submit Standard Shelling, Mortaring, and Bombing Report
113-573-4003P	ENCODE AND DECODE MESSAGES USING KTC 600(*) TACTICAL OPERATIONS CODE

Enlisted MOS: 13F Skill Level: 1

Individual Task(s)

071-074-0002	Determine a Grid Azimuth Using an M2 Compass
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Enlisted MOS: COM Skill Level: 1

Individual Task(s)

071-329-1000	Identify Topographic Symbols on a Military Map
071-329-1001	Identify Terrain Features on a Map
071-329-1002	Determine the Grid Coordinates of a Point on a Military Map
071-329-1003	DETERMINE A MAGNETIC AZIMUTH USING A LENSATIC COMPASS

Enlisted MOS: COM Skill Level: 2

Individual Task(s)

071-329-1009	Convert Azimuths
071-329-1014	Locate an Unknown Point on a Map and on the Ground by Intersection
071-510-0001	Determine Azimuth Using a Protractor

06-5-A002 PERFORM ANTIARMOR OPERATIONS

Enlisted MOS: COM Skill Level: 1

Individual Task(s)

071-311-2007	ENGAGE TARGETS WITH AN M16A1 OR M16A2 RIFLE
071-311-2027	LOAD AN M16A1 OR M16A2 RIFLE
071-311-2029	CORRECT MALFUNCTIONS OF AN M16A1 OR M16A2 RIFLE
071-325-4407	EMPLOY HAND GRENADES
071-326-5703	CONSTRUCT INDIVIDUAL FIGHTING POSITIONS
071-331-0815	PRACTICE NOISE, LIGHT, AND LITTER DISCIPLINE
071-331-0852	CLEAR A FIELD OF FIRE

Enlisted MOS: COM Skill Level: 2

Individual Task(s)

061-283-6003	ADJUST INDIRECT FIRE
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06-5-A003 PERFORM DESTRUCTION OF MATERIAL AND RECORDS

Enlisted MOS: 13M Skill Level: 3

Individual Task(s)

061-310-8014	Implement Emergency Destruction of MLRS Ammunition
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Enlisted MOS: 13M Skill Level: 2

Individual Task(s)

061-310-8009	Perform Hangfire Procedures on the M270
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Enlisted MOS: 13M Skill Level: 3

Individual Task(s)

061-310-8015	Direct Hangfire Procedures on the M270
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Enlisted MOS: 13M Skill Level: 4

Individual Task(s)

061-310-8002	Perform Emergency Destruction Procedures on MLRS Ammunition
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Enlisted MOS: 13P Skill Level: 3

Individual Task(s)

061-287-5023	Advice Supported Unit of MLRS Capabilities and Limitations.
061-287-5024	Disseminate Fire Support Information to Lower, and Higher Field Artillery Elements.

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
 113-573-0002 CONDUCT OPERATIONS SECURITY (OPSEC) PROCEDURES

06-5-A006 ESTABLISH AN OBSERVATION POST (FIRE SUPPORT TEAM)

Enlisted MOS: 13C Skill Level: 1

Individual Task(s)
 061-300-5008 Enter the Field Artillery Support Plan Text (AFATDS Units)

Enlisted MOS: 13C Skill Level: 4

Individual Task(s)
 061-300-5027 Conduct the Field Artillery Estimate (AFATDS Units)

Enlisted MOS: 13D Skill Level: 4

Individual Task(s)
 061-299-5015 Write the Automated Fire Support Tab to the Fire Support Plan of an OPORD

Enlisted MOS: 13E Skill Level: 2

Individual Task(s)
 061-279-5013 Process a Fire Plan Using the AFC/DS

Enlisted MOS: 13F Skill Level: 1

Individual Task(s)
 061-274-5000 Determine Observer Location Information Using the AN/TVQ-2 (G/VLLD) (Dismounted Mode)
 061-283-1001 Determine Direction Within the Target Area
 061-283-1959 Determine Self-location with the AN/GVS-5 Laser Range Finder (LRF)
 061-283-5001 Prepare the AN/GVS-5 Laser Range Finder (LRF) for Operation
 061-283-5002 Construct a Terrain Sketch
 061-283-5010 Request and Adjust Area Fire Using the AN/GVS-5 Laser Range Finder (LRF)
 061-301-5000 Process Recorded Targets and Known Points Using the AN/PSG-7
 061-301-5002 Process an Area Fire Mission Using the AN/PSG-7
 061-301-5007 Process Monitored Messages on the AN/PSG-7
 061-301-5008 Process Routed Messages as a Fist Using the AN/PSG-7
 061-301-5009 Process Mission Data as a Fist Using the AN/PSG-7
 061-301-5010 Process Graphics Data in the AN/PSG-7
 061-301-5011 Process Fire Plan Information Using the AN/PSG-7
 061-301-8000 Prepare the AN/PSG-7 for Operation
 061-301-8001 Perform Self-Location Using the AN/PSG-7
 061-354-5000 Perform Operational Checks on the Intercommunication System of the M113 Series Vehicle
 071-520-0001 Orient a Map Using a M2 Compass

Enlisted MOS: 13F Skill Level: 2

Individual Task(s)

061-283-2051	SELECT AND OCCUPY AN OBSERVATION POST
061-284-1001	PREPARE/SUBMIT FORWARD OBSERVER TARGET LIST
061-301-5001	Process a Precision Registration Mission Using the AN/PSG-7
061-301-5006	Conduct a Final Protective Fire Mission Using the AN/PSG-7
061-354-2007	DETERMINE THE CLOUD HEIGHT USING THE TARGETING STATION

Enlisted MOS: 13F Skill Level: 3

Individual Task(s)

061-284-3030	Request Close Air Support (CAS)
061-284-3220	Establish the Fire Support Team (FIST) Headquarters Communications
061-284-3226	Produce Company Fire Support Plan
061-284-3227	Process Forward Observer Target Lists

Enlisted MOS: 13F Skill Level: 4

Individual Task(s)

061-284-4221	Establish Fire Support Element Communications
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Enlisted MOS: 13F Skill Level: 1

Individual Task(s)

061-354-2017	Remove and Stow the G/VLLD from the Targeting Head
061-354-2022	Install the G/VLLD into the Targeting Head
061-354-2030	Install the AN/TAS-4B into the Targeting Head

Enlisted MOS: COM Skill Level: 2

Individual Task(s)

071-329-1004	Determine the Elevation of a Point on the Ground Using a Map
071-329-1009	Convert Azimuths
071-329-1014	Locate an Unknown Point on a Map and on the Ground by Intersection
071-329-1015	Locate an Unknown Point on a Map and on the Ground by Resection

06-5-A008 CONDUCT FIRE MISSIONS (FIRE SUPPORT TEAM)

Enlisted MOS: 13E Skill Level: 2

Individual Task(s)

061-279-5013	Process a Fire Plan Using the AFC/DS
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Enlisted MOS: 13F Skill Level: 1

Individual Task(s)

061-283-1002	Locate a Target by Grid Coordinates
061-283-1003	Locate a Target by Polar Plot
061-283-1004	Locate a Target by Shift from a Known Point
061-283-1011	Request and Adjust Area Fire
061-283-1016	Measure Distance Using the AN/GVS-5 Laser Range Finder (LRF)
061-283-5002	Construct a Terrain Sketch

061-283-5010	Request and Adjust Area Fire Using the AN/GVS-5 Laser Range Finder (LRF)
061-301-5000	Process Recorded Targets and Known Points Using the AN/PSG-7
061-301-5002	Process an Area Fire Mission Using the AN/PSG-7
061-301-5007	Process Monitored Messages on the AN/PSG-7
061-301-5008	Process Routed Messages as a Fist Using the AN/PSG-7
061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
061-301-5010	Process Graphics Data in the AN/PSG-7
061-301-5011	Process Fire Plan Information Using the AN/PSG-7
061-301-8000	Prepare the AN/PSG-7 for Operation
061-301-8001	Perform Self-Location Using the AN/PSG-7
061-355-5100	PREPARE THE FOS HTU FOR OPERATION
061-355-5101	PREPARE THE FOS LCU FOR OPERATION

Enlisted MOS: 13F Skill Level: 2

Individual Task(s)

061-274-2000	Conduct Fire for Effect Mission with the AN/TVQ-2 Ground/Vehicular Laser Locator Designator (G/VLLD) (Dismounted Mode Only)
061-274-5200	Conduct a Copperhead Mission (Dismounted Mode Only)
061-283-1013	CONDUCT A SUPPRESSION MISSION
061-283-1014	CONDUCT AN IMMEDIATE SUPPRESSION MISSION
061-283-1015	CONDUCT A FIRE FOR EFFECT MISSION
061-283-1021	REQUEST AND ADJUST COORDINATED ILLUMINATION
061-283-2002	REQUEST AND ADJUST FINAL PROTECTIVE FIRES
061-283-2021	CONDUCT AN IMMEDIATE SMOKE MISSION
061-283-2023	CONDUCT A QUICK SMOKE MISSION
061-283-2101	Select and Locate a Registration Point
061-283-2104	CONDUCT A MORTAR REGISTRATION
061-283-2206	REQUEST FIRE ON IRREGULARLY SHAPED TARGETS
061-284-5005	CONTROL CLOSE AIR SUPPORT
061-284-5006	CONDUCT A MOVING TARGET MISSION
061-301-5001	Process a Precision Registration Mission Using the AN/PSG-7
061-301-5006	Conduct a Final Protective Fire Mission Using the AN/PSG-7
061-354-2031	Conduct a Highburst Registration Using the Targeting Station
061-354-2032	Conduct a Fire For Effect Mission Using a Targeting Station
061-354-2036	Request and Adjust a Final Protective Fire Using Targeting Station
061-354-5202	Conduct a Copperhead Mission Using the Targeting Station

Enlisted MOS: 13F Skill Level: 3

Individual Task(s)

061-284-3030	Request Close Air Support (CAS)
061-284-3046	Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements

Enlisted MOS: 13F Skill Level: 1

Individual Task(s)

061-354-2017	Remove and Stow the G/VLLD from the Targeting Head
061-354-2022	Install the G/VLLD into the Targeting Head
061-354-2030	Install the AN/TAS-4B into the Targeting Head

06-5-A047 ESTABLISH FIRE SUPPORT OPERATIONS

Enlisted MOS: 13F Skill Level: 1

Individual Task(s)

061-283-5010	Request and Adjust Area Fire Using the AN/GVS-5 Laser Range Finder (LRF)
061-299-5004	Maintain TAFCS Communications
061-301-5007	Process Monitored Messages on the AN/PSG-7
061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
061-301-5011	Process Fire Plan Information Using the AN/PSG-7
061-301-8000	Prepare the AN/PSG-7 for Operation
061-302-8002	Establish the AN/PSG-7 Operational Parameters
061-354-2022	Install the G/VLLD into the Targeting Head
061-354-2030	Install the AN/TAS-4B into the Targeting Head
061-355-5100	PREPARE THE FOS HTU FOR OPERATION
061-355-5104	Transmit Information Messages
061-355-5106	Initialize the Graphics Map

Enlisted MOS: 13F Skill Level: 2

Individual Task(s)

061-274-3987	CONSTRUCT A LASER RANGE SAFETY FAN FOR THE AN/TVQ-2 GROUND/VEHICULAR LOCATOR DESIGNATOR (G/VLLD)
061-283-2051	SELECT AND OCCUPY AN OBSERVATION POST
061-354-2007	DETERMINE THE CLOUD HEIGHT USING THE TARGETING STATION
061-354-5201	PERFORM SELF-LOCATION USING THE TARGETING STATION
061-355-5201	View & Update or Transmit Database Records from the Graphics Map

Enlisted MOS: 13F Skill Level: 3

Individual Task(s)

061-284-3004	Advise Supported Unit of Friendly Fire Support Capabilities and Limitations
061-284-3046	Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements
061-284-3220	Establish the Fire Support Team (FIST) Headquarters Communications
061-284-3226	Produce Company Fire Support Plan
061-284-3227	Process Forward Observer Target Lists
061-299-5006	Perform Continuity of Operations
061-299-5010	Process Fire Planning

06-5-C040 COORDINATE AND CONTROL FIRE PLAN EXECUTION

Enlisted MOS: 13F Skill Level: 1

Individual Task(s)

061-301-5000	Process Recorded Targets and Known Points Using the AN/PSG-7
061-301-5008	Process Routed Messages as a Fist Using the AN/PSG-7
061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
061-301-5010	Process Graphics Data in the AN/PSG-7

Enlisted MOS: 13F Skill Level: 2

Individual Task(s)

061-284-1001 PREPARE/SUBMIT FORWARD OBSERVER TARGET LIST

Enlisted MOS: 13F Skill Level: 3

Individual Task(s)

061-284-3004 Advise Supported Unit of Friendly Fire Support Capabilities and Limitations
 061-284-3046 Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements
 061-284-3220 Establish the Fire Support Team (FIST) Headquarters Communications
 061-284-3226 Produce Company Fire Support Plan
 061-284-3227 Process Forward Observer Target Lists

Enlisted MOS: 13F Skill Level: 4

Individual Task(s)

061-284-4000 Analyze the Formations of Threat Forces
 061-284-4022 Coordinate Fires
 061-284-4209 Plan and Coordinate Fire Support to Suppress Enemy Air Defense
 061-284-4243 Plan for the Employment of Smart Weapons and Special Munitions

08-2-0003.06-A001 TREAT CASUALTIES**Enlisted MOS: 91B Skill Level: 1**

Individual Task(s)

081-831-0010 MEASURE A PATIENT'S RESPIRATIONS
 081-831-0011 MEASURE A PATIENT'S PULSE
 081-831-0012 MEASURE A PATIENT'S BLOOD PRESSURE
 081-831-0013 MEASURE A PATIENT'S TEMPERATURE
 081-831-0033 INITIATE A FIELD MEDICAL CARD
 081-831-0038 TREAT A CASUALTY FOR A HEAT INJURY
 081-831-0039 TREAT A CASUALTY FOR A COLD INJURY
 081-833-0015 SURVEY A CASUALTY

Enlisted MOS: COM Skill Level: 1

Individual Task(s)

081-831-1000 EVALUATE A CASUALTY
 081-831-1003 CLEAR AN OBJECT FROM THE THROAT OF A CONSCIOUS CASUALTY
 081-831-1005 PREVENT SHOCK
 081-831-1007 GIVE FIRST AID FOR BURNS
 081-831-1008 GIVE FIRST AID FOR HEAT INJURIES
 081-831-1009 GIVE FIRST AID FOR FROSTBITE
 081-831-1016 PUT ON A FIELD OR PRESSURE DRESSING
 081-831-1017 PUT ON A TOURNIQUET
 081-831-1025 APPLY A DRESSING TO AN OPEN ABDOMINAL WOUND
 081-831-1026 APPLY A DRESSING TO AN OPEN CHEST WOUND
 081-831-1031 ADMINISTER FIRST AID TO A NERVE AGENT CASUALTY (BUDDY-AID)

081-831-1033	APPLY A DRESSING TO AN OPEN HEAD WOUND
081-831-1034	SPLINT A SUSPECTED FRACTURE
081-831-1042	PERFORM MOUTH-TO-MOUTH RESUSCITATION

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)	
04-8310.00-3007	Evaluate a Casualty
04-8310.00-3008	Clear an Object from the Throat of a Conscious Casualty
04-8310.00-3009	Perform Mouth-to-Mouth Resuscitation
04-8310.00-3010	Put on a Field or Pressure Dressing
04-8310.00-3011	Put on a Tourniquet
04-8310.00-3012	Prevent Shock
04-8310.00-3013	Splint a Suspected Fracture
04-8310.00-3014	Give First Aid for Burns
04-8310.00-3016	Administer First Aid to a Nerve Agent Casualty (Buddy-Aid)
04-8310.00-3018	Give First Aid for Frostbite
04-8310.00-3020	Give First Aid for Heat Injuries
04-8310.00-3024	Apply a Dressing to an Open Chest Wound
04-8310.00-3025	Apply a Dressing to an Open Head Wound
04-8310.00-3026	Apply a Dressing to an Open Abdominal Wound

08-2-C316.06-A006 TRANSPORT CASUALTIES

Enlisted MOS: COM Skill Level: 1

Individual Task(s)	
031-503-1004	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION USING YOUR M17-SERIES PROTECTIVE MASK WITH HOOD
031-503-1007	DECONTAMINATE YOUR SKIN AND PERSONAL EQUIPMENT USING AN M258A1 DECONTAMINATION KIT
031-503-1012	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD
031-503-1015	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WITH MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
031-503-1025	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION USING YOUR M40-SERIES PROTECTIVE MASK WITH HOOD
031-503-1028	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION USING YOUR M42 PROTECTIVE MASK WITH HOOD
081-831-1040	TRANSPORT A CASUALTY USING A ONE-MAN CARRY
081-831-1041	TRANSPORT A CASUALTY USING A TWO-MAN CARRY OR AN IMPROVISED LITTER

Enlisted MOS: COM Skill Level: 2

Individual Task(s)	
081-831-0101	REQUEST MEDICAL EVACUATION
121-030-3534	REPORT CASUALTIES

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)	
01-5030.00-1004	Use Your M17-Series Protective Mask with Hood
04-8310.00-3016	Adminster First Aid to a Nerve Agent Casualty (Buddy-Aid)
04-8310.00-3027	Transport a Casualty Using a One-Man Carry
04-8310.00-3028	Transport a Casualty Using a Two-Man Carry or an Improvised Litter

08-2-R315.06-A007 PERFORM FIELD SANITATION FUNCTIONS**Enlisted MOS: COM Skill Level: 4**

Individual Task(s)	
081-831-0102	SUPERVISE UNIT PREVENTIVE MEDICINE AND FIELD SANITATION PROCEDURES
850-001-4001	INTEGRATE RISK MANAGEMENT IN PLATOON MISSION

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)	
03-8310.00-3021	Protect Yourself Against Biting Insects
03-8310.00-3022	Protect Yourself Against Diarrhea and Dysentery
03-8310.00-3023	Practice Personal Hygiene to Maintain Fitness
04-8310.00-3017	Protect Yourself Against Cold

Officer MOS: COM Skill Level: 2nd Lieutenant

Individual Task(s)	
04-8310.00-3019	Protect Yourself Against Heat
03-8310.00-9000	Supervise Unit Preventive Medicine and Field Sanitation Procedures
03-9003.03-0001	Supervise the Management of Accident Risk in Unit Operations

10-2-C002.06-A000 PERFORM UNIT GRAVES REGISTRATION FUNCTIONS**Officer MOS: COM Skill Level: Pre-Commissioned**

Individual Task(s)	
04-3302.01-0003	Conduct a Reconnaissance
03-5104.00-0007	Supervise Graves Registration Support
03-5104.00-0026	Plan Graves Registration Support

10-2-C230.06-A001 PROVIDE UNIT SUPPLY SUPPORT**Enlisted MOS: 92Y Skill Level: 1**

Individual Task(s)	
101-521-1151	Order Supplies and Equipment
101-521-1152	Request Supply Status for High Priority Requests
101-521-1153	Request Cancellation of Supplies

101-521-1154	RECEIVE SUPPLIES AND EQUIPMENT
101-521-1155	SUPPLIES AND EQUIPMENT TO HAND-RECEIPT HOLDERS
101-521-1156	STORE SELECTED SUPPLIES AND EQUIPMENT IN UNIT STORAGE AREAS
101-521-1163	Prepare and Maintain a Document Register
101-521-1164	Prepare and Update Signature Cards
101-521-2151	PREPARE A PROPERTY BOOK
101-521-2152	POST TRANSACTIONS TO THE MANUAL PROPERTY BOOK
101-521-2154	DETERMINE METHOD OF OBTAINING RELIEF FROM RESPONSIBILITY FOR LOST, DAMAGED, OR DESTROYED PROPERTY

Enlisted MOS: 92Y Skill Level: 2

Individual Task(s)

101-521-2161	REQUEST AND TURN IN AMMUNITION
101-521-3151	Account for and Adjust Property Records for Bulk Petroleum

Enlisted MOS: 92Y Skill Level: 3

Individual Task(s)

101-521-3102	DISPOSE OF ABSENTEE'S CLOTHING, EQUIPMENT, AND PERSONAL EFFECTS
101-521-3105	DIRECT THE CONTROL AND SECURITY OF WEAPONS AND AMMUNITION IN UNIT STORAGE AREA
101-521-3215	Check the availability of Supply Publications Required to Support Unit Supply Operations
101-521-3216	Supervise Subordinate Personnel in Determining Serviceability of Organizational Clothing and Equipment
101-521-3252	CONTROL/SUPERVISE PROPERTY ADMINISTRATION IN UNIT SUPPORTED BY MANUAL/AUTOMATED SYSTEMS
101-521-3253	Direct and Control Method of Obtaining Relief From Responsibility for Lost, Damaged, or Destroyed Property at Unit Level
101-521-3254	Direct the Planning and Forecasting of Supplies (Classes I, III, and V) at the Unit Level

Enlisted MOS: 92Y Skill Level: 4

Individual Task(s)

101-521-3101	ACCOUNT FOR ABSENTEE'S CLOTHING, EQUIPMENT, AND PERSONAL EFFECTS
101-521-3107	INSPECT ORGANIZATIONAL MAINTENANCE OF WEAPONS
101-521-3251	MAINTAIN MANUAL/AUTOMATED HAND RECEIPT

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)

S3-5101.00-0269	The US Army Supply System
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11-2-C302.06-C001 ESTABLISH AND OPERATE A SINGLE-CHANNEL VOICE RADIO NET

Enlisted MOS: 13C Skill Level: 1

Individual Task(s)

061-275-8004	Operate SINCGARS ICOM w/VIC-1
061-275-8006	Operate as a Net Control Station (NCS)
061-276-1012	Install Antenna Group OE-254/GRC
061-288-5103	Install Antenna Group OE-254/GRC(Version 11)

Enlisted MOS: COM Skill Level: 2

Individual Task(s)	
113-573-8006	USE AN AUTOMATED SIGNAL OPERATION INSTRUCTION (SOI)

Enlisted MOS: COM Skill Level: 3

Individual Task(s)	
113-572-4008	TRANSMIT A VOICE UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
113-572-5005	RECEIVE A VOICE UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
113-572-6005	WRITE A UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
113-572-6006	READ A UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE

Enlisted MOS: COM Skill Level: 4

Individual Task(s)	
113-573-0002	CONDUCT OPERATIONS SECURITY (OPSEC) PROCEDURES

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)	
01-5700.01-0002	Determine Call Signs, Frequencies, and Item Numbers
01-5700.01-0003	Employ a Numeral Cipher Authentication System

11-5-0102.06-A000 INSTALL /OPERATE/MAINTAIN A SINGLE CHANNEL VOICE RADIO STATION

Enlisted MOS: 31C Skill Level: 1

Individual Task(s)	
113-573-0007	IDENTIFY COMSEC INSECURITIES
113-573-4003	ENCODE AND DECODE MESSAGES USING KTC 600(*) TACTICAL OPERATIONS CODE
113-573-4006	USE THE KTC 1400(*) NUMERAL CIPHER AND AUTHENTICATION SYSTEM
113-573-6001	Recognize Electronic Countermeasures (ECM) and Implement Electronic Counter-Countermeasures (ECCM)
113-573-7017	PREPARE/SUBMIT OPERATOR'S (MIJI) REPORT

Enlisted MOS: COM Skill Level: 2

Individual Task(s)	
113-573-8006	USE AN AUTOMATED SIGNAL OPERATION INSTRUCTION (SOI)

Enlisted MOS: COM Skill Level: 3

Individual Task(s)
113-572-4008 TRANSMIT A VOICE UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
113-572-5005 RECEIVE A VOICE UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
113-573-0002 CONDUCT OPERATIONS SECURITY (OPSEC) PROCEDURES

11-5-1102.06-A001 INSTALL/OPERATE/MAINTAIN A SINGLE CHANNEL GROUND AND AIRBORNE RADIO SYSTEM (SINGARS) FREQUENCY HOPPING (FH) NET

Enlisted MOS: 13B Skill Level: 1

Individual Task(s)
061-275-8004 Operate SINGARS ICOM w/VIC-1
061-276-1011 Use SOI Extract

Enlisted MOS: 13C Skill Level: 1

Individual Task(s)
061-275-8004 Operate SINGARS ICOM w/VIC-1
061-275-8006 Operate as a Net Control Station (NCS)
061-276-1010 Install Antenna Group OE-303
061-276-1011 Use SOI Extract
061-276-1012 Install Antenna Group OE-254/GRC

Enlisted MOS: 13C Skill Level: 3

Individual Task(s)
061-275-8014 Supervise the Operation of SINGARS
061-275-8015 Supervise SINGARS Net Control Station (NCS) Procedures

Enlisted MOS: 13D Skill Level: 1

Individual Task(s)
061-275-8004 Operate SINGARS ICOM w/VIC-1
061-275-8006 Operate as a Net Control Station (NCS)
061-276-1011 Use SOI Extract
061-276-1012 Install Antenna Group OE-254/GRC

Enlisted MOS: 13D Skill Level: 2

Individual Task(s)
061-275-8014 Supervise the Operation of SINGARS
061-275-8015 Supervise SINGARS Net Control Station (NCS) Procedures

Enlisted MOS: 13E Skill Level: 1

Individual Task(s)
 061-275-8004 Operate SINCGARS ICOM w/VIC-1
 061-276-1011 Use SOI Extract
 061-276-1012 Install Antenna Group OE-254/GRC
 061-279-5003 Maintain Communication Using the AFC/DS

Enlisted MOS: 13E Skill Level: 3

Individual Task(s)
 061-275-8014 Supervise the Operation of SINCGARS

Enlisted MOS: 13F Skill Level: 1

Individual Task(s)
 061-275-8004 Operate SINCGARS ICOM w/VIC-1
 061-276-1012 Install Antenna Group OE-254/GRC

Enlisted MOS: 13F Skill Level: 2

Individual Task(s)
 061-275-8014 Supervise the Operation of SINCGARS

Enlisted MOS: 13M Skill Level: 1

Individual Task(s)
 061-275-8004 Operate SINCGARS ICOM w/VIC-1

Enlisted MOS: 13P Skill Level: 1

Individual Task(s)
 061-275-8004 Operate SINCGARS ICOM w/VIC-1
 061-275-8006 Operate as a Net Control Station (NCS)
 061-276-1012 Install Antenna Group OE-254/GRC

Enlisted MOS: 13P Skill Level: 3

Individual Task(s)
 061-275-8015 Supervise SINCGARS Net Control Station (NCS) Procedures

Enlisted MOS: 13R Skill Level: 1

Individual Task(s)
 061-275-8003 Operate SINCGARS ICOM
 061-276-1011 Use SOI Extract
 061-276-1012 Install Antenna Group OE-254/GRC

Enlisted MOS: 13R Skill Level: 4

Individual Task(s)
 061-275-8015 Supervise SINCGARS Net Control Station (NCS) Procedures

Enlisted MOS: 82C Skill Level: 1

Individual Task(s)
061-275-8003 Operate SINCGARS ICOM
061-276-1011 Use SOI Extract

Enlisted MOS: 82C Skill Level: 2

Individual Task(s)
061-275-8014 Supervise the Operation of SINCGARS

Enlisted MOS: 82C Skill Level: 3

Individual Task(s)
061-275-8015 Supervise SINCGARS Net Control Station (NCS) Procedures

Enlisted MOS: 93F Skill Level: 1

Individual Task(s)
061-275-8003 Operate SINCGARS ICOM

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
113-573-8006 USE AN AUTOMATED SIGNAL OPERATION INSTRUCTION (SOI)

Enlisted MOS: COM Skill Level: 3

Individual Task(s)
113-572-4008 TRANSMIT A VOICE UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
113-573-0002 CONDUCT OPERATIONS SECURITY (OPSEC) PROCEDURES

12-1-C401.06-A000 REDUCE BATTLEFIELD STRESS

Officer MOS: 13A Skill Level: 1st Lieutenant

Individual Task(s)
01-2999.99-0600 Command a Battery

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)
S3-9001.18-0001 Manage Organizational Stress
S3-9001.18-0002 Minimize Combat Stress

12-2-C321.06-A007 MAINTAIN COMPANY/BATTERY STRENGTH

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
121-030-3534 REPORT CASUALTIES

12-3-C216.06-A008 MAINTAIN PLATOON STRENGTH

Enlisted MOS: COM Skill Level: 1

Individual Task(s)
081-831-1005 PREVENT SHOCK
081-831-1016 PUT ON A FIELD OR PRESSURE DRESSING

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
121-030-3534 REPORT CASUALTIES

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
071-430-0007 CONSOLIDATE A PLATOON FOLLOWING ENEMY CONTACT WHILE IN THE DEFENSE
071-430-0008 REORGANIZE A PLATOON FOLLOWING ENEMY CONTACT WHILE IN THE DEFENSE

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)
O3-0170.01-1005 Perform Wartime Strength Accounting at Unit Level

19-2-C702.06-A000 HANDLE ENEMY PRISONERS OF WAR

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
191-377-5250 HANDLE ENEMY PERSONNEL AND EQUIPMENT

19-3-3105.06-A001 PROCESS CAPTURED DOCUMENTS AND EQUIPMENT

Enlisted MOS: COM Skill Level: 2

Individual Task(s)
191-377-5250 HANDLE ENEMY PERSONNEL AND EQUIPMENT

Enlisted MOS: COM Skill Level: 4

Individual Task(s)
191-379-4450 PROPER HANDLING OF ENEMY PERSONNEL AND EQUIPMENT AT UNIT LEVEL

43-2-C322.06-A000 PERFORM UNIT LEVEL MAINTENANCE

Enlisted MOS: 63B Skill Level: 3

Individual Task(s)
091-309-0626 Supervise the maintenance test, measurement, and diagnostic equipment
091-309-0633 PREPARE MATERIAL CONDITION STATUS REPORT
091-309-0671 INSPECT MOTOR EQUIPMENT UTILIZATION RECORD (DD FORM 1970)
091-309-0673 INSPECT PREVENTIVE MAINTENANCE RECORD SCHEDULE AND RECORD, DD FORM 314
091-309-0680 INSPECT RECORD OF DEMANDS
091-309-0685 PREPARE ACCIDENT REPORT (DA FORM 285)
091-309-0698 INSPECT UNIT DEMANDS SUMMARY LISTING (AUTOMATED)
091-309-0700 INSPECT RECONCILIATION LISTING (AUTOMATED)
091-309-2026 INSPECT OIL ANALYSIS REQUEST (DD FORM 2026)

Enlisted MOS: COM Skill Level: 1

Individual Task(s)
551-721-1352 Perform Vehicle Preventive Maintenance Checks and Services (PMCS)

Enlisted MOS: COM Skill Level: 3

Individual Task(s)
091-309-0710 SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES
091-309-0711 DIRECT VEHICLE AND EQUIPMENT RECOVERY OPERATIONS

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)
O3-4651.90-0001 Supervise Training and Licensing of Unit Equipment Operators
O3-4966.90-0010 Supervise Preventive Maintenance Checks and Services
O3-4976.90-0501 Prepare a Materiel Condition Status Report
O3-4995.90-0010 Direct Vehicle and Equipment Recovery Operations
O3-5101.00-0283 Supervise the Maintenance of Unit Prescribed Load List

43-2-C323.06-A001 MANAGE UNIT MAINTENANCE OPERATIONS

Enlisted MOS: 63B Skill Level: 3

Individual Task(s)
091-309-0626 Supervise the maintenance test, measurement, and diagnostic equipment
091-309-0633 PREPARE MATERIAL CONDITION STATUS REPORT
091-309-0671 INSPECT MOTOR EQUIPMENT UTILIZATION RECORD (DD FORM 1970)

091-309-0673	INSPECT PREVENTIVE MAINTENANCE RECORD SCHEDULE AND RECORD, DD FORM 314
091-309-0680	INSPECT RECORD OF DEMANDS
091-309-0685	PREPARE ACCIDENT REPORT (DA FORM 285)
091-309-0698	INSPECT UNIT DEMANDS SUMMARY LISTING (AUTOMATED)
091-309-0700	INSPECT RECONCILIATION LISTING (AUTOMATED)
091-309-2026	INSPECT OIL ANALYSIS REQUEST (DD FORM 2026)

Enlisted MOS: COM Skill Level: 3

Individual Task(s)	
091-309-0710	SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES
091-309-0711	DIRECT VEHICLE AND EQUIPMENT RECOVERY OPERATIONS

44-1-C220.06-A000 USE PASSIVE AIR DEFENSE MEASURES

Enlisted MOS: COM Skill Level: 1

Individual Task(s)	
301-348-1050	REPORT INFORMATION OF POTENTIAL INTELLIGENCE VALUE

Enlisted MOS: COM Skill Level: 3

Individual Task(s)	
441-091-3001	DIRECT UNIT AIR DEFENSE

44-1-C221.06-A001 TAKE ACTIVE COMBINED ARMS AIR DEFENSE AGAINST HOSTILE AIR PLATFORMS

Enlisted MOS: COM Skill Level: 1

Individual Task(s)	
071-311-2007	ENGAGE TARGETS WITH AN M16A1 OR M16A2 RIFLE
071-311-2027	LOAD AN M16A1 OR M16A2 RIFLE
071-312-3027	LOAD AN M60 MACHINE GUN
071-331-0804	PERFORM SURVEILLANCE WITHOUT THE AID OF ELECTRONIC DEVICES
301-348-1050	REPORT INFORMATION OF POTENTIAL INTELLIGENCE VALUE
441-091-1040	VISUALLY IDENTIFY THREAT AIRCRAFT

Enlisted MOS: COM Skill Level: 2

Individual Task(s)	
441-091-1040	VISUALLY IDENTIFY THREAT AIRCRAFT

Enlisted MOS: COM Skill Level: 3

Individual Task(s)	
121-030-3534	REPORT CASUALTIES
441-091-3001	DIRECT UNIT AIR DEFENSE
551-721-3352	DIRECT CONVOY DEFENSE OPERATIONS

Officer MOS: COM Skill Level: Pre-Commissioned

Individual Task(s)

01-5700.01-0001	Communicate on a Tactical Radio
03-3711.04-0001	Report Information of Potential Intelligence Value

Officer MOS: COM Skill Level: 2nd Lieutenant

Individual Task(s)

01-5700.01-0001	Communicate on a Tactical Radio
03-3711.04-0001	Report Information of Potential Intelligence Value

71-3-R231.06-0001 PERFORM RISK MANAGMENT PROCEDURES

Officer MOS: 13A Skill Level: 1st Lieutenant

Individual Task(s)

01-2999.99-0600	Command a Battery
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Figure 2-4. Individual Task to Collective Task.

CHAPTER 3

Combined Arms Training Strategies

- 3-1 Combined Arms Training Strategies (CATS): The concept of CATS has been with the Army for many years and unit training planners performed CATS planning even before the term existed. Every time a battalion S-3 planned an FTX, CPX, STAFFEX, or any other training exercise, the CATS process was used.
- 3-2 CATS Methodology: CATS is the overarching training strategy that a commander uses to maintain his unit within the band of excellence. The CATS concept requires the use of scarce resources to gain the maximum effect from training dollars and time. Use of embedded training devices and existing simulations/simulators should be an integral part of the training strategy. Elements of a platoon train and master (in isolation) the specific tasks they will perform before the platoon as a whole trains. This concept fits into the "crawl, walk, run" methodology of training. This allows for low OPTEMPO training and ensures the sections know their jobs before the platoon leaders perform the command and control functions. The same methodology applies to the battery, battalion and brigade. This method saves countless resources when used for higher echelon training events. Imagine sending a Battalion to the field for an FTX, and the howitzer section crews are unable to perform fire missions to standard. The training benefit for the staff and the fire support teams would be degraded. The concept of training lower echelon elements before training higher echelons has been used for many years. We now have written and documented strategies to do this.
- 3-3 CATS Development: USAFAS, in conjunction with TRADOC, has developed CATS for all units in the FA community. These strategies were developed using input from various unit commanders in the field (both FA and maneuver) and the experience of the training developers.
- a. TRADOC started developing CATS several years ago in text format using word processors. CATS are now available in a database format from the Reimer Data Repository at <http://155.217.58.100/>. Users must have a user ID and password to use this site. You can obtain that from the site after you log in. SATS users may download CATS events for various unit types and elements from the repository. SATS 4.1 does not have the utility of taking CATS events and turning them into a unit-training event by pointing and clicking. SATS 4.2 has that function. SATS 4.2 allows planners to use CATS that they have downloaded and imported. They can create a training event by massaging the downloaded event. They may not want some collective tasks or the resourcing may not reflect their specific situation. The planner modifies the event to meet the specific situation of the unit. Resources may be changed that reflect the actual resources of the unit. These can be changed for each training exercise as often as the unit wants. It may reflect that two howitzers are inoperative for a certain exercise and the fuel that they would have used will not be used.
 - b. CATS serves several purposes. First it assists the unit planners in developing training programs and exercises for their units. Second it assists the planners in determining resources needed to execute training exercises and will ultimately become the justification for resource requirements. Finally and not so tangible, CATS passes on the historical knowledge and experience of prior commanders. This will greatly decrease the learning curve of new commanders.
 - c. Each CATS event lists a set of tasks that developers have identified as the critical tasks for the event. They are the first thing listed in the event. An example of a CATS matrix is found and explained at the end of this chapter. The CATS matrix is a MSWord document and can only be found on the U.S. Army CATS homepage or the WIDD homepage at USAFAS. The addresses are listed below. The units should download the CATS database from the Reimer data repository for use in SATS. The use of CATS within the SATS program is very different then what you will see in the word processor format. The same data exists but in a different manner.

- d. The second purpose, that of resources, is filled when the commander identifies the required resources for a specific event. Not all events will have resources listed. Some events do not require the expenditure of class III or IV supplies which are the only classes of supplies listed with this version of CATS. The resourcing of a CATS event will become very important when the Army fully integrates the CATS resourcing into the Battalion Level Training Module (BLTM). BLTM will be used as the training resource requirement model for the Army. It will be based on input from units concerning the actual consumption of various classes of supply, OPTEMP, and status of training in the unit. Initially the CATS that have been developed for use by the Army will fill the resourcing requirement. However, as units report actual resources used, the resources for specific units and events will become more accurate.

3-4. CATS MATRIX:

- a. The CATS matrix listed here is a copy of a report that is produced in MS Word format. All CATS matrix available outside the Reimer Data Repository will be in MS WORD or HTML format and located at the WIDD homepage under the Training and Doctrine Development Division unit training area. The location of this is <http://155.219.39.98/widd/WIDDToc.html>. This same matrix may be found at <ftp://ftp-dcst.monroe.army.mil/cats/index.htm>.
- b. The CATS matrix below is in Word format and looks like the ones you will find on the WIDD homepage and the CATS homepage. The data that you will download for import into SATS will come in a different format and have all the same information. It will be in database format and capable of viewing only in SATS. SATS 4.1 will not allow the user to alter or change the strategy. SATS 4.2 will allow this however. Notes that explain the elements of the matrix are included in bold and underlined text.

Task: Perform C2 of DS FA BN (6-5-TS101) This is the task that will be trained.

Supporting Task(s): This is the set of tasks that will be trained during the event.

- 06-1-A000, PREPARE THE FA INTELLIGENCE PLAN
 - 06-1-A001.06-C001, ESTABLISH AND MAINTAIN THE FA BATTALION TACTICAL OPERATIONS CENTER
 - 06-1-A002, CONTROL AND MONITOR FA OPERATIONS
 - 06-1-A007, PARTICIPATE IN THE OPERATION ORDER PROCESS (S-1)
 - 06-1-A008, PREPARE THE BATTALION RECONNAISSANCE AND SURVEILLANCE PLAN
 - 06-1-A009, DIRECT THE OPERATION OF FIELD ARTILLERY ACQUISITION ASSETS
 - 06-1-A010, PLAN AND COORDINATE A FIELD ARTILLERY RAID
 - 06-1-A011, SUPERVISE FIELD ARTILLERY PLANNING
 - 06-1-A012, ESTABLISH AND MAINTAIN SITUATIONAL AWARENESS WITHIN THE FA BATTALION
 - 06-1-A013.06-C013, ESTABLISH AND MAINTAIN BATTALION FDC
 - 06-1-A014, DEVELOP THE BATTALION COMMUNICATIONS PLAN
 - 06-1-A015, COORDINATE AND DIRECT BATTALION COMMUNICATIONS OPERATIONS
 - 06-1-A016, COORDINATE BATTALION AMMUNITION RESUPPLY OPERATIONS
 - 06-1-A017, ESTABLISH AND MAINTAIN CSS SITUATIONAL AWARENESS
 - 06-1-A018, MANAGE AND COORDINATE BATTALION SUPPLY OPERATIONS
 - 06-1-A019, DRAW AND TURN IN AMMUNITION (BATTALION AMMUNITION PLATOON/SECTION)
 - 06-1-A020, PLAN BATTALION COUNTERINTELLIGENCE OPERATIONS
 - 06-1-A021, PLAN AND COORDINATE MEDICAL OPERATIONS
 - 06-1-A023, DIRECT NBC OPERATIONS
 - 06-1-A024, COORDINATE BATTALION DEFENSE AND SECURITY OPERATIONS
 - 06-1-A025, PROCESS AND DISSEMINATE INTELLIGENCE INFORMATION
 - 06-1-A026.06-C026, CONDUCT CONTINUITY OPERATIONS
 - 06-1-A034, DEVELOP THE COMMANDER'S ESTIMATE
 - 06-1-A035, SUPERVISE FA OPERATIONS DURING MISSION PREPARATION AND EXECUTION
 - 06-1-A036, CONDUCT FA PLANNING
 - 06-1-A037, CONDUCT FA REHEARSALS (FA COMMANDER)
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06-1-A038, ESTABLISH AND MAINTAIN THE BATTALION ADMINISTRATION AND LOGISTICS OPERATIONS CENTER (ALOC)
06-1-A039, PARTICIPATE IN REHEARSAL OPERATIONS (FSCoord)
06-1-A040, SUPERVISE FORCE FIRE SUPPORT PLANNING
06-1-A041, SUPERVISE FORCE FIRE SUPPORT OPERATIONS DURING MISSION PREPARATION AND EXECUTION
06-1-A042, PERFORM TOP-DOWN FIRE PLANNING
06-1-A043, PREPARE THE FIRE SUPPORT ESTIMATE
06-1-A044, PREPARE THE FIRE SUPPORT ANNEX
06-1-A045, PARTICIPATE IN REHEARSAL OPERATIONS (BRIGADE FIRE SUPPORT ELEMENT)
06-1-A046, SUPERVISE EXECUTION OF THE FIRE SUPPORT ANNEX
06-1-A048, PLAN FIRES IN SUPPORT OF MANEUVER OPERATIONS
06-1-A049, PARTICIPATE IN REHEARSAL OPERATIONS (COMPANY FIRE SUPPORT TEAM)
06-1-A050, COORDINATE, DIRECT, AND ADJUST OTHER FIRE SUPPORT ASSETS
06-1-A051, ESTABLISH AND MAINTAIN FA SITUATIONAL AWARENESS (FA COMMANDER)
06-1-A052, PARTICIPATE IN FA TACTICAL PLANNING (S-2)
06-1-A053, PREPARE THE FA OPERATIONS ESTIMATE
06-1-A054, PUBLISH THE FIELD ARTILLERY SUPPORT PLAN
06-1-A056, COORDINATE AND CONTROL BATTALION MOVES
06-1-A057, REPORT AMMUNITION INFORMATION
06-1-A058, COORDINATE HOT REFUEL OPERATIONS
06-1-A059, SUPERVISE SUSTAINMENT OPERATIONS
06-1-A060, COORDINATE AND MONITOR BATTALION CSS OPERATIONS DURING MISSION PREPARATION AND EXECUTION
06-1-A061, PREPARE THE LOGISTIC ESTIMATE
06-1-A062, PREPARE THE LOGISTIC PLAN
06-1-A063, ESTABLISH AND MAINTAIN A BATTALION SUPPORT OPERATIONS CENTER (BSOC)
06-1-A064, PROVIDE BATTALION AMMUNITION SUPPORT
06-1-A065, PLAN AND ENFORCE OPERATIONS SECURITY
06-1-A071, DEVELOP THE FA-FOCUSED IPB
06-1-A073, MANAGE BATTALION SUPPLY RECORDS AND SUBMIT REPORTS
06-1-A077, PREPARE THE FA INTELLIGENCE ESTIMATE
06-1-A079, CONDUCT SITUATION DEVELOPMENT
06-1-A080, REQUEST BATTLE DAMAGE ASSESSMENT
06-1-A088, COMMAND AND CONTROL SURVIVABILITY OPERATIONS
06-1-A089, COMMAND AND CONTROL DELIVERY OF FIRES
06-1-A091, DISTRIBUTE AND CONTROL COMSEC MATERIAL
06-1-A067, CONTROL COUNTERFIRE OPERATIONS
06-1-C026, PROVIDE FIRE SUPPORT COORDINATION
06-1-C027, EXECUTE BATTALION FIRE MISSIONS
06-1-C028, CONDUCT TACTICAL FIRE CONTROL
06-1-C029, ESTABLISH AND MAINTAIN WIRE COMMUNICATIONS
06-1-D030, SUPPORT AN AIRHEAD OPERATION (AIRBORNE UNITS ONLY)
06-1-E031, SUPPORT AN AIR ASSAULT OPERATION
06-1-E032, PLAN AND COORDINATE A TACTICAL AIRLIFT
06-2-A000.06-C000, ESTABLISH AND MAINTAIN COMMUNICATIONS (CANNON)
06-2-A001, COMMAND AND CONTROL COMMUNICATIONS OPERATIONS
08-1-1612.06-A000, PLAN FOR COMBAT HEALTH SUPPORT OPERATIONS (BATTALION LEVEL)
11-2-C302.06-C001, ESTABLISH AND OPERATE A SINGLE-CHANNEL VOICE RADIO NET
11-5-0102.06-A000, INSTALL /OPERATE/MAINTAIN A SINGLE CHANNEL VOICE RADIO STATION
11-5-1102.06-A001, INSTALL/OPERATE/MAINTAIN A SINGLE CHANNEL GROUND AND AIRBORNE RADIO SYSTEM (SINCGARS) FREQUENCY HOPPING (FH) NET
12-1-C401.06-A000, COMBAT BATTLEFIELD STRESS
12-1-C402.06-A001, PROVIDE MORALE, WELFARE, AND RECREATION SUPPORT
12-1-C403.06-A002, REPORT CASUALTIES

12-1-C404.06-A003, PERFORM STRENGTH ACCOUNTING
12-1-C405.06-A004, CONDUCT REPLACEMENT OPERATIONS
12-1-C406.06-A005, PROCESS PERSONNEL AND ADMINISTRATIVE ACTIONS
12-1-C407.06-A006, ESTABLISH A TEMPORARY ENEMY PRISONER OF WAR COLLECTION POINT
16-1-1001.06-A000, CONDUCT COMMAND RELIGIOUS SUPPORT PROGRAM
44-1-C220.06-A000, USE PASSIVE AIR DEFENSE MEASURES
44-1-C221.06-A001, TAKE ACTIVE COMBINED ARMS AIR DEFENSE AGAINST HOSTILE AIR PLATFORMS
71-3-R231.06-0001, PERFORM RISK MANAGEMENT PROCEDURES

Frequency: Quarterly (4.0) This indicates the number of times the event will be trained during a year.

Types of Events: BCT FTX, CALFEX, CFX, CPX, FTX This lists the prescribed training event types. More than one event type may be listed. The developer has done this in order to provide the commander a choice of event types based the unit's OPTEMPO and needs.

Training Audience: COMMAND SECTION , OPERATIONS SECTION , MVR BDE FIRE SPT ELE , 3 MVR BN FIRE SPT ELE , 8 TANK CO FIST , 4 MECH INF CO FIST Who will be trained.

Means (Event) (TADSS): 1 - BCT FTX (Simulations to train FA battalion C2)The means lists the type of event and any training aides, devices, simulations, or simulators that may be used to train this event.

Estimated Duration: 216 Hours Length of the event

Replication of Conditions (A-D): B This indicates the ability of the event to replicate warlike conditions. An "A" indicates a CTC type training event. "B" is some sort of live training not performed at a CTC. "C" and "D" indicates still lower quality training replication. "C" would mean an event that falls into the crawl or walk level of training and does not replicate warlike conditions very well. "D" indicates even less warlike conditions than "C".

Multi-echelon Training: FTX for HHB tasks in support of the division artillery CP using (06366L000), HHB/SVC BTRY MOVE (06366L100), HHB/SVC BTRY -PROTECT THE FORCE (06366L100), DIGITAL SUSTAINMENT TRAINING (06366L100), STAFFEX for Provide Fire Support using Simulation to support digitization/staff training (06366L100), STX for PERFORM LOGISTICS AND CSS (06366L100), TmTrng for Artillery survey training (06366L100) This is the training that will take place at the same time the main training is happening. The listed events are those that will take place simultaneously with the actual training of the staff in command and control functions. These events are listed for the same type of unit as this unit and may be found in the same set of CATS matrix as this CATS matrix.

Critical Training Gates:

Individual Tasks These will be the required prerequisite collective and individual tasks that must be trained prior to the actual training.

Resources: This would list any required resources for the event.

Comments: (Includes purpose of event; outcome supported; execution guidance about execution of the event; constraints posed by TADSS/et al) Self Explanatory

PURPOSE: To attain and sustain proficiency on all battalion METL tasks. To demonstrate collective task proficiency at the Bn and Brigade Combat Team (BCT) level.

OUTCOME: The battalion is proficient in providing timely and accurate fires in support of the BCT and the commanders intent.

EXECUTION GUIDANCE: This action trains the battalion in all METL tasks. The commander must select an action based on his training assessment and the resources available to ensure that this task selection is trained 5 times a year. The FTX proposed in the CATS is a 216 hour FTX which may be extended to 254 hours to include the Deploy/Redeploy tasks. Two FTXs a year are suggested; one is the EXEVAL for the BCT. The cannon battalion FTX may be nested in the BCT FTX. Gunnery tasks are contained in the artillery tables appendix B, ARTEP 6-115- MTP and are included in this task selection, the battalion FTX, the CALFEX, and the battalion STX and LFX. This is specific guidance that explains the event and the methodology used to develop and train it.

This is a new type event for the same set of tasks. However this would be an EXEVAL. This can be seen when you look under the Means line. The rest of the matrix is exactly like the parts above. Each different means will have the same types of listings.

Training Audience: COMMAND SECTION , OPERATIONS SECTION , MVR BDE FIRE SPT ELE , 3 MVR BN FIRE SPT ELE , 8 TANK CO FIST , 4 MECH INF CO FIST

Means (Event) (TADSS): 1 - BCT FTX (Simulations to train FA battalion C2) (EXEVAL)

Estimated Duration: 216 Hours

Replication of Conditions (A-D): B

Multi-echelon Training: FTX for HHB tasks in support of the division artillery CP using (06366L000), HHB/SVC BTRY MOVE (06366L100), HHB/SVC BTRY -PROTECT THE FORCE (06366L100), DIGITAL SUSTAINMENT TRAINING (06366L100), STAFFEX for Provide Fire Support using Simulation to support digitization/staff training (06366L100), STX for PERFORM LOGISTICS AND CSS (06366L100), TmTrng for Artillery survey training (06366L100)

Critical Training Gates:

Individual Tasks

Resources:

Comments: (Includes purpose of event; outcome supported; execution guidance about execution of the event; constraints posed by TADSS/et al)

PURPOSE: To attain and sustain proficiency on all battalion METL tasks. To demonstrate collective task proficiency at the Bn and Brigade Combat Team (BCT) level.

OUTCOME: The battalion is proficient in providing timely and accurate fires in support of the BCT and the commanders intent.

EXECUTION GUIDANCE: This action trains the battalion in all METL tasks. The commander must select an action based on his training assessment and the resources available to ensure that this task selection is trained 5 times a year. The FTX proposed in the CATS is a 216 hour FTX which may be extended to 254 hours to include the Deploy/Redeploy tasks. Two FTXs a year are suggested, one is the EXEVAL for the BCT. The cannon battalion FTX may be nested in the BCT FTX. Gunnery tasks are contained in the artillery tables appendix D, ARTEP 6-115- MTP and are included in this task selection, the battalion FTX, the CALFEX, and the battalion STX and LFX.

Another new means. This one is a CALFEX

Training Audience: COMMAND SECTION , OPERATIONS SECTION , MVR BDE FIRE SPT ELE , 3 MVR BN FIRE SPT ELE , 8 TANK CO FIST , 4 MECH INF CO FIST

Means (Event) (TADSS): 1 - CALFEX

Estimated Duration: 24 Hours

Replication of Conditions (A-D): B

Multi-echelon Training: TmTrng for Artillery survey training (06366L100), TmTrng for FIST/COLT Team Training using No Training Equipment (TADSS) Selected (06366L100), FTX for HHB tasks in support of the division artillery CP using (06366L000), HHB/SVC BTRY MOVE (06366L100), HHB/SVC BTRY -PROTECT THE FORCE (06366L100), DIGITAL SUSTAINMENT TRAINING (06366L100), STAFFEX for Provide Fire Support using Simulation to support digitization/staff training (06366L100), STX for PERFORM LOGISTICS AND CSS (06366L100)

Critical Training Gates:

Individual Tasks

Resources:**Class 3 - POL**

LIN	Gal	Nomenclature
T61494	1.0	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E (HMMWV)
T61494	1.0	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E (HMMWV)
C11158	0.6	CARRIER ARMORED COMMAND POST: FULL TRACKED
T61494	1.0	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E (HMMWV)
C11158	0.6	CARRIER ARMORED COMMAND POST: FULL TRACKED
T61494	1.0	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E (HMMWV)
Z51550	1.2	IK CARRIER COMMAND M-577A1: MK-2219
C11158	0.6	CARRIER ARMORED COMMAND POST: FULL TRACKED
T61562	1.0	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E W/W (HMMWV)
T61494	1.0	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E (HMMWV)
T61562	1.0	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E W/W (HMMWV)
T61494	1.0	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E (HMMWV)
T61562	1.0	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E W/W (HMMWV)
T61562	1.0	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E W/W (HMMWV)
T38844	1.0	TRUCK AMBULANCE: 4 LITTER ARMD 4X4 W/E (HMMWV)
T61494	1.0	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E (HMMWV)
Z13860	6.0	CARRIER FULL TRACKED: COMMAND AND CONTROL VEHICLE (C2V)
Z51550	0.6	IK CARRIER COMMAND M-577A1: MK-2219
T61494	1.0	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E (HMMWV)
Z13860	6.0	CARRIER FULL TRACKED: COMMAND AND CONTROL VEHICLE (C2V)
Z51550	0.6	IK CARRIER COMMAND M-577A1: MK-2219
Z27871	0.6	FIRE SUPPORT TEAM VEHICLE: BRADLEY (BFIST-ODS)
Z27871	0.6	FIRE SUPPORT TEAM VEHICLE: BRADLEY (BFIST-ODS)
T92242	1.0	TRUCK UTILITY: ARMT CARRIER ARMD 1-1/4 TON 4X4 W/E (HMMWV)
T61494	1.0	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E (HMMWV)
T61494	1.0	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E (HMMWV)
C11158	0.6	CARRIER ARMORED COMMAND POST: FULL TRACKED
D11049	6.0	CARRIER CARGO: TRACKED 6 TON
K57667	9.0	HOWITZER MEDIUM SELF PROPELLED: 155
T41067	4.0	TRUCK CARGO: HEAVY PLS TRANSPORTER

Class 5 - Ammunition

DODIC	LIN	Rounds	Nomenclature
D505	K57667	2	PROJ 155MM ILLUM M485 F/HOW M1 M1A1 M45
D528	K57667	1	PROJ 155MM SMOKE SCREENING M825
D544	K57667	11	PROJ 155MM HE M107 SERIES W/SUPPL CHG F/HOW M1 M1A
D550	K57667	1	PROJ 155MM WP M110 SERIES F/HOW M1 M1A1 M45

D579 K57667 1 PROJ 155MM HE M549 W/SUPPL CHG W/O FUZE F/HOW
M109

Class 7 - Major End Items

LIN	Count	Nomenclature
Z51550	2	IK CARRIER COMMAND M-577A1: MK-2219
T38844	1	TRUCK AMBULANCE: 4 LITTER ARMD 4X4 W/E (HMMWV)
Z13860	1	CARRIER FULL TRACKED: COMMAND AND CONTROL VEHICLE (C2V)
Z51550	1	IK CARRIER COMMAND M-577A1: MK-2219
Z13860	1	CARRIER FULL TRACKED: COMMAND AND CONTROL VEHICLE (C2V)
Z51550	1	IK CARRIER COMMAND M-577A1: MK-2219
T92242	2	TRUCK UTILITY: ARMT CARRIER ARMD 1-1/4 TON 4X4 W/E (HMMWV)
D11049	18	CARRIER CARGO: TRACKED 6 TON
T41067	18	TRUCK CARGO: HEAVY PLS TRANSPORTER

Comments: (Includes purpose of event; outcome supported; execution guidance about execution of the event; constraints posed by TADSS/et al)

PURPOSE: To train the BCT staff and leaders and all Fire Support Elements on the tasks required to synchronize, coordinate and integrate all direct and indirect fires available to the BCT, safely and with maximum effects on the enemy in support of the plan and the commander's intent.

OUTCOME: The BCT leaders and staff and FSO/FSE's are proficient at integrating, coordinating and synchronizing all fires available to the BCT.

EXECUTION GUIDANCE: The BCT events assume participation of the Brigade HQ and Command Group necessary to exercise the habitual staff/fire support relationships that require training in the DS battalion. The DS battalion is not resourced to support all TF training in the supported brigade with more than the dedicated Fire Support Slice. Operations are conducted with sufficient rigor to train the FSO/FSEs to become proficient at tasks such as Developing a Fire Support Plan, Coordinating Fire Support, Executing Fire Support, Executing Immediate CAS, and Keeping the DS FA Bn Updated. The training focus is on command and control of subordinate forces and the synchronization of supporting components such as intelligence functions in the conduct of fire support operations. Many of the tasks in this selection have a corresponding automated task or one that supports that task. These automated tasks are determined by the hardware/software version of automation available to the FSO. The growth of digitization of the battlefield and the future demands on situational awareness require leader training on these automated systems.

- 3-5. The use of CATS will assist commanders in their training efforts. It will ensure the commander has a sense of direction and has a starting point. The FA CATS have been developed Army wide in conjunction with maneuver units. The true combined arms methodology requires that we in the FA train with the units we support. We have ensured horizontal integration of our events. The maneuver units have the same number and type of major training events. I.e. One CTC rotation and one brigade FTX per year. This corresponds to the one CTC rotation and one FTX EXEVAL per year by a DS FA battalion. The execution guidance will also prompt commanders to ensure certain events are trained in conjunction with maneuver units. This will ensure we are performing "combined arms" training and not training the FA in isolation.

CHAPTER 4

Training Support Packages

- 4-1 Training Support Package (TSP) definition: A TSP is a plan (template) that has been designed around specific CATS events. The TSPs all use a common format. The major areas of the TSP include the tasks selected for training, the resources required and the execution guidance with a master events lists and possible scenarios when required
- 4-2 These TSPs will not fit every situation nor do they offer a one product fits all method of training. In some cases however, a commander decide to use a TSP in it's original form without any alterations. TSPs give commanders a starting point from which they may plan training events. A TSP tells "How To Execute Training"; the CATS strategy represents "What and Why to Train". CATS show how a training event fits into the overall strategy to prepare a unit for combat. TSPs take that strategy and help turn it into a real training event with real training goals. A TSP will give the commander an excellent idea about the resources required to perform a specific type of training event. They will also have a scenario, master event list, or time ordered event list to act as a stimulus for the event. Many of the TSPs will also have digital scenarios developed for DSTATS. Having these scenarios in the digital format and the stimulus already prepared will save many hours of work. Presently we have the following TSPs under development. As they become available they will be put on the WIDD homepage for use.

155 SP HOWITZER BN FDC EXERCISE
 155 SP HOWITZER POC CERTIFICATION
 MVR BDE FSE EXERCISE 155 SP BN
 MVR BN FSE EXERCISE 155 SP BN
 MVR BN FSE EXERCISE 105 T BN
 MVR CO FIST EXERCISE 155 SP BN
 MVR CO FIST EXERCISE 105T BN
 FA BDE CPX
 DIVARTY CPX
 MLRS BN FDC EXERCISE
 MLRS BTRY EXEVAL
 155 SP BATTALION EXEVAL

- a. Commanders should use the parts of the TSP that best fit the specific event being planned. This is very easy to do because the TSPs are in MS Word format and may be edited in that environment. The entire TSP or select sections may be downloaded.
 - b. The TSP may be cut up to put OC or evaluator packets together. The T&EO task steps for the specific event are included in the TSP. They may also be found in SATS if the current task data for the MTP is in the Database.
 - c. Not only do the TSPs show the approximate amount of resources required to conduct a specific event, but also they have evaluator requirements and evaluator packets already built in.
- 4-3 At the present time we have four TSPs published; the MLRS, Paladin, 105T, and 155T section certification (dry) TSPs. Currently several contractors are developing 12 more TSPs. As these TSPs are completed, they will become available on the WIDD homepage at <http://155.219.39.98/doctrine/wddfrm.htm>. These documents will be in MS Word format and may be downloaded for use by units. The scenarios and events stimulus for DSTATS may also be downloaded from that site. The TSPs also use a digital map for some of the events. The map software and digital maps are available at the same sight.

- 4-4 The TSPs are task based and support specific CATS events. The M109A6 Paladin section certification supports the CATS event of "Perform Howitzer Section Tasks."
- 4-5 The TSPs have been written to allow use of existing training aides, devices, simulations, and simulators (TADSS). When required, a scenario will be developed and put into the DSTATS format. This will be available for download from the WIDD homepage. The use of DSTATS will greatly simplify training. The unit will no longer have to develop its own scenario or enter it into DSTATS.
- 4-6 The TSP developers have also incorporated the use of digital maps. This makes the conduct of certain events such as CPXs or STAFFEXs easier. There is no need to find mapsheets for specific areas. We will include most major training installations in the map index and overlays are also available for those areas. Presently we have only one map available and all TSPs have been built around that map. Units using the digital maps may project them onto a screen or use them on a big screen monitor. The software needed to display them is called Falcon View and it is available from the WIDD homepage. The digital map capability may not be available until mid year of 2000. In addition to the TSPs and all supporting materials being made available on the world wide web, we are also offering them in CD format. You may request them by going to the WIDD homepage and navigating to the unit training section. You will find a button that will allow you to request them on a CD. You may also call Henry Koelzer at the number listed below.
- 4-7 We welcome your input concerning the TSPs and any ideas you may have about the improvement of them.
- 4-8 The point of contact for all TSPs is Henry Koelzer, USAFAS.

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CHAPTER 5

Training and Evaluation Outlines

5-1. Introduction: This chapter contains the training and evaluation outlines for the unit. T&EOs are the foundation of the MTP and the collective training of the units. T&EOs are training objectives (task, conditions, and standards) for the collective tasks, which support critical wartime operations. The unit must master those collective tasks designated by the unit's missions essential tasks list (METL) to perform its critical wartime operations. For collective live-fire standards, the trainer needs to refer to the applicable artillery tables (Appendix B) to determine the tasks to perform and the time standards (Appendix A) to identify the standards.

5-2. Structure: The T&EOs in this chapter are listed in Table 5-1. The Mission-to-Collective Task Matrix in Chapter 2 lists the T&EOs required to train the critical wartime missions according to their specific BOS.

5-3. Format: The T&EOs are prepared for every collective task that supports critical wartime operation accomplishment. Each T&EO contains the following items:

- a. Element: This identifies the unit or unit element(s)/section(s) that perform the task.
- b. Task: This is a description of the action to be performed by the unit, and provides the task number.
- c. References: These are in parenthesis following the task number. The reference, which contains the most information (primary reference) about the task, is listed first and underlined.
- d. Iteration: Used to identify how many times the task is performed and evaluated during training. The "M" identifies when the task is performed in MOPP4.
- e. Commander/Leader Assessment: The unit leadership uses this to assess the proficiency of the unit in performing the task to standard. Assessments are subjective in nature and use all available evaluation data and submit leader input to develop an assessment of the organization's overall capability to accomplish the task. The commander must use his experience and METT-TC to give an honest assessment of his unit's training status. This assessment will always be subjective. We have attempted to make the assessment as unambiguous as possible. We recommend using the following rating criteria.
 - (1) T – Trained: All critical task steps as indicated by a "+" are performed and the element attains the task standard. The element attains 70% of all non-critical task steps. "T" (trained) means that the unit can successfully perform the task to standard. Only sustainment training is needed. The leader/OC or trainer judges task performance to be free of significant shortcomings. Practice on "T" tasks is designed to keep soldiers from losing proficiency.
 - (2) P - Needs practice: The element attains the task standard and performs all critical task steps but fails to perform one or more non-critical task step. "P" (practice) means that the unit can perform the task with some shortcomings. The shortcomings are not severe enough to require complete retraining. Only refresher training is required.
 - (3) U – Untrained: The unit fails to attain the task standard and fails to perform one or more critical task step. "U" (untrained) means that the unit cannot perform the task to standard. The leader must prepare a comprehensive strategy to train all tasks not executed to standard.

(4) Communications allows the field artillery to perform its primary mission of delivering fires. We have a vast and varied array of communications systems in the inventory. These systems offer varying degrees of secure capability. SINCGARS allows units to establish frequency hopping secure nets while VRC-12 series radios allow units to establish secure communications with the KY-57. In those tasks that require the establishment of communications, the elements must establish the most secure communications their equipment allows. They will receive a "NOGO" for the task step of establishing communications if they fail to do this.

f. Condition: The task condition defines the situation or environment in which the unit is to perform the collective task.

g. Task standard:

(1) The task standard states the performance criteria that a unit must achieve to successfully execute the task. This overall standard should be the focus of training. Every soldier should understand it.

(2) The trainer or evaluator determines the unit's training status using performance observation measurements (where applicable) and his judgment. The unit must be evaluated in the context of the METT-TC conditions. These conditions should be as similar as possible for all evaluated elements. This will establish a common base line for unit performance.

h. Task Steps: This is a listing of actions that is required to complete the task. These actions are stated in terms of observable performance for evaluating training proficiency. The task steps are arranged sequentially along with supporting individual tasks and their reference. Leader tasks within each T&EO are indicated by an asterisk (*). Each critical task step is indicated by a (+).

i. GO/NO-GO column: This column is provided for annotating the platoon's performance of the task steps. Mark each step as a "GO" or "NOGO". Units must establish the most secure communications they are capable of when a task step indicates "Establish communications" in order to receive a "GO".

j. Task performance/evaluation summary block: This block provides the trainer a means of recording the total number of task steps evaluated and those evaluated as "GO". It also provides the evaluator a means to rate the units demonstrated performance as a "GO" or "NO-GO". It also provides the leader with a historical record for five training iterations.

k. Supporting Individual Tasks: This is a listing of all supporting individual tasks required to correctly perform the task. Listed are the reference, task numbers, and task titles.

Develop Intelligence

SUBMIT SURVEY REPORTS AND COMBAT INFORMATION (06-4-V004)	5-5
PERFORM OBSERVATION AND SURVEILLANCE (06-5-A000)	5-7
PERFORM CRATER ANALYSIS OPERATIONS (06-5-A001)	5-9
PROCESS CAPTURED DOCUMENTS AND EQUIPMENT (19-3-3105.06-A001)	5-11

Deploy/Conduct Maneuver

OCCUPY A TACTICAL ASSEMBLY AREA (06-2-A003)	5-13
CONDUCT BATTERY PRE/REDEPLOYMENT OPERATIONS (06-2-A066).....	5-16
CONDUCT AIRBORNE OPERATIONS (06-2-E001).....	5-19
CONDUCT AIR ASSAULT OPERATIONS (06-2-E002)	5-21
PREPARE FOR AIR MOVEMENT (06-2-E006).....	5-24
PERFORM RECONNAISSANCE OPERATIONS (PALADIN UNITS) (06-2-G010).....	5-25

CONDUCT OCCUPATION OF POSITION AREA (NON PALADIN UNITS) (06-3-B003)	5-27
MOVE A CANNON BATTERY OR PLATOON (06-3-C013)	5-30
PERFORM A SURVIVABILITY MOVE (PALADIN ONLY) (06-4-G000)	5-34
ESTABLISH AN OBSERVATION POST (FIRE SUPPORT TEAM) (06-5-A006).....	5-35

Employ Firepower

PLAN FIRES IN SUPPORT OF MANEUVER OPERATIONS (06-1-A048)	5-39
COORDINATE, DIRECT, AND ADJUST OTHER FIRE SUPPORT ASSETS (06-1-A050).....	5-43
CONDUCT AN AIR ASSAULT ARTILLERY RAID (06-2-E003).....	5-45
CONDUCT AN ARTILLERY RAID (06-2-W107)	5-47
CONDUCT EMERGENCY MISSIONS (06-3-C002)	5-51
PERFORM HASTY SURVEY (06-3-C011).....	5-53
ESTABLISH FIRING CAPABILITY AT THE FIRING POSITION (PALADIN UNITS) (06-3-G004)	5-55
DETERMINE FIRING DATA (06-4-C002)	5-58
CONDUCT FIRE MISSIONS (06-4-C003).....	5-61
MANAGE AND SUBMIT HOWITZER SECTION REPORTS (06-4-C004).....	5-64
UNLOAD THE HOWITZER (06-4-C009).....	5-65
PREPARE HOWITZER FOR CONDUCT OF FIRE MISSIONS (NON-PALADIN) (06-4-C012)	5-67
CONDUCT DIRECT FIRE (06-4-C015).....	5-70
ESTABLISH AZIMUTH BY SIMULTANEOUS OBSERVATION (06-4-C017).....	5-72
ASSUME DIRECTIONAL CONTROL (06-4-C018)	5-73
ESTABLISH AZIMUTH BY ASTRONOMIC OBSERVATION (06-4-C019).....	5-74
PERFORM FIRE MISSIONS IN DEGRADED MODE ON THE M109A6 PALADIN HOWITZER. (06-4-G005)	5-76
PROCESS FIRE MISSIONS ON THE M109A6 PALADIN HOWITZER (06-4-G009).....	5-78
UPDATE PADS BY USING ASSUMED DATA (06-4-V001)	5-80
ESTABLISH SURVEY CONTROL BY THREE POINT RESECTION (06-4-V002).....	5-82
USE PADS TO EXTEND SURVEY CONTROL (06-4-V003)	5-84
PLAN AND EXECUTE SURVEY OPERATIONS (06-4-V005).....	5-87
ESTABLISH A DECLINATION STATION (06-4-V006)	5-89
EXTEND AZIMUTH BY DIRECTIONAL TRAVERSE (06-4-V007)	5-91
CONDUCT FIRE MISSIONS (FIRE SUPPORT TEAM) (06-5-A008)	5-93
ESTABLISH FIRE SUPPORT OPERATIONS (06-5-A047)	5-100
COORDINATE AND CONTROL FIRE PLAN EXECUTION (06-5-C040)	5-104

Protect the Force

CONDUCT A CHEMICAL SURVEY (03-2-C310.06-0000)	5-107
CONDUCT THOROUGH DECONTAMINATION OPERATIONS (03-2-C312.06-A001)	5-110
PREPARE FOR OPERATIONS UNDER NBC CONDITIONS (03-3-C201.06-A002).....	5-114
PREPARE FOR A CHEMICAL ATTACK (03-3-C202.06-A003)	5-117
RESPOND TO A CHEMICAL ATTACK (03-3-C203.06-A004).....	5-119
PREPARE FOR A FRIENDLY NUCLEAR STRIKE (03-3-C205.06-A001)	5-122
PREPARE FOR NUCLEAR ATTACK (03-3-C206.06-A005)	5-124
CROSS A RADIOLOGICALLY CONTAMINATED AREA (03-3-C208.06-A006)	5-126
RESPOND TO THE RESIDUAL EFFECTS OF A NUCLEAR ATTACK (03-3-C222.06-A007) ...	5-128
RESPOND TO THE INITIAL EFFECTS OF A NUCLEAR ATTACK (03-3-C223.06-A008).....	5-130
CONDUCT OPERATIONAL DECONTAMINATION (03-3-C224.06-A009).....	5-133
CONDUCT CHEMICAL RECONNAISSANCE (03-3-C225.06-A010)	5-137
CROSS CHEMICALLY CONTAMINATED AREA (03-3-C226.06-A011)	5-141
REINFORCE AND RESTORE THE UNIT PERIMETER (06-2-A002)	5-144
DEFEND AGAINST AMBUSH (06-2-A022).....	5-146
PERFORM RECONNAISSANCE (06-2-C010)	5-148
PLAN AND CONDUCT DEFENSE AND SECURITY OF THE BATTERY/PLATOON AREA AND MATERIAL (06-3-A000).....	5-151
PERFORM ANTIARMOR OPERATIONS (06-5-A002)	5-156

PERFORM DESTRUCTION OF MATERIAL AND RECORDS (06-5-A003).....	5-158
TREAT CASUALTIES (08-2-0003.06-A001).....	5-160
TRANSPORT CASUALTIES (08-2-C316.06-A006).....	5-164
PERFORM FIELD SANITATION FUNCTIONS (08-2-R315.06-A007).....	5-167
REDUCE BATTLEFIELD STRESS (12-1-C401.06-A000).....	5-170
HANDLE ENEMY PRISONERS OF WAR (19-2-C702.06-A000).....	5-172
USE PASSIVE AIR DEFENSE MEASURES (44-1-C220.06-A000).....	5-174
TAKE ACTIVE COMBINED ARMS AIR DEFENSE AGAINST HOSTILE AIR PLATFORMS (44-1-C221.06-A001).....	5-176
PERFORM RISK MANAGMENT PROCEDURES (71-3-R231.06-0001).....	5-179
Perform CSS and Sustainment	
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Figure 5-1. List of T&EO's

ELEMENTS: DETAIL PLT HQ
SURVEY SECTION

TASK: SUBMIT SURVEY REPORTS AND COMBAT INFORMATION (06-4-V004)
(FM 6-2)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The survey section/PADS party is conducting survey operations. Communications have been established with the controlling headquarters. While conducting survey operations enemy activity, shelling, rocketing, and bombing and/or nuclear, biological, and chemical (NBC) attack is observed. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The survey section/PADS party submits survey reports and combat information IAW TSOP and/or survey plan.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The chief surveyor/team chief provides survey data and reconnaissance information to BOC/POC IAW TSOP and/or survey plan. + 2. The team collects/reports information (SALUTE) when enemy activity is observed. 3. The team performs crater and shell fragment analysis when shelling, rocketing, or bombing is observed. 4. The team submits SHELREP, when shelling, rocketing, or bombing is observed. 5. The team submits a NBC I report when an enemy NBC attack is observed.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

“*” indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	061-306-6005	Prepare and/or Submit Standard Shelling, Mortaring, and Bombing Report
	301-348-1050	REPORT INFORMATION OF POTENTIAL INTELLIGENCE VALUE
STP 21-24-SMCT	031-503-3005	PREPARE AND SUBMIT NBC 1 REPORTS
STP 21-I-MQS	03-3711.04-0001	Report Information of Potential Intelligence Value
STP 6-13B24-SM-TG	061-306-6004	Perform Crater and Shell Fragment Analysis
STP 6-82C14-SM-TG	061-275-8003	Operate SINGARS ICOM

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals
	061-275-8014	Supervise the Operation of SINCGARS
	061-275-8017	Supervise the Operation of Mobile Subscriber Terminal Equipment
	061-276-1011	Use SOI Extract
	061-302-2102	Evaluate Survey Information
	061-302-8001	Transmit Information Messages

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PERFORM OBSERVATION AND SURVEILLANCE (06-5-A000)
(FM 6-50)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is conducting combat operations. The battery is in position and a defense perimeter has been established. Observation posts (OPs) and listening posts (LPs) have been designated. Some iterations of this task should be performed in MOPP4. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The 1SG establishes OPs and LPs on the basis of the commander's guidance and the situation.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>NOTE: 1SG establishes the battery outposts. Positions OPs/LPs within range of supporting small arms fire. Battery personnel do the following:</p> <ol style="list-style-type: none"> 1. Occupy positions as required. + 2. Establish and maintain communications with BOC/POC (messenger, signals, wire line, or radio). + 3. Prepare position range cards as time permits. 4. Camouflage positions. 5. Maintain surveillance of assigned sector. 6. Emplace trip flares and early warning devices. 7. Notify BOC/POC of all information and targets detected (SALUTE). 8. Ensure all personnel are familiar with TSOP on engagement. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	071-311-2007	ENGAGE TARGETS WITH AN M16A1 OR M16A2 RIFLE
	071-311-2027	LOAD AN M16A1 OR M16A2 RIFLE
	071-311-2029	CORRECT MALFUNCTIONS OF AN M16A1 OR M16A2 RIFLE

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	071-312-3003	LAY AN M60 MACHINE GUN USING FIELD EXPEDIENTS
	071-326-0511	REACT TO FLARES
	071-326-0513	SELECT TEMPORARY FIGHTING POSITIONS
	071-326-5703	CONSTRUCT INDIVIDUAL FIGHTING POSITIONS
	071-329-1002	Determine the Grid Coordinates of a Point on a Military Map
	071-331-0801	CHALLENGE PERSONS ENTERING YOUR AREA
	071-331-0804	PERFORM SURVEILLANCE WITHOUT THE AID OF ELECTRONIC DEVICES
	071-331-0815	PRACTICE NOISE, LIGHT, AND LITTER DISCIPLINE
STP 21-24-SMCT	071-326-5705	ESTABLISH AN OBSERVATION POST

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PERFORM CRATER ANALYSIS OPERATIONS (06-5-A001)
(FM 6-121)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is conducting combat operations and has occupied a position area. Incoming artillery fire has impacted in the position area. The battery has directed the crater analysis team to perform crater analysis. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The battery crater analysis team performs a crater analysis to determine the direction, size, and type of enemy artillery fire IAW FM 6-50 appendix J.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. Battery personnel inspect craters as soon as possible after impact. + 2. Battery personnel ensure team has necessary tools to perform analysis. 3. Battery personnel determine direction of incoming artillery. 4. Battery personnel determine size and type of munitions. 5. Battery personnel search position area for unexploded ordnance as follows: + a. Mark location. b. Send location to explosive ordnance disposal (EOD) or higher HQ. 6. Battery personnel tag usable fragments and send to higher HQ. As a minimum, the tag should contain the following: + a. Location of the crater. b. Direction to the hostile weapon. c. Date-time group of the shelling. 7. BOC/POC (platoon operations center) personnel will forward SHELREP to higher HQ.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	071-329-1000	Identify Topographic Symbols on a Military Map
	071-329-1001	Identify Terrain Features on a Map

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	071-329-1002	Determine the Grid Coordinates of a Point on a Military Map
	071-329-1003	DETERMINE A MAGNETIC AZIMUTH USING A LENSATIC COMPASS
STP 21-24-SMCT	071-329-1009	Convert Azimuths
	071-329-1014	Locate an Unknown Point on a Map and on the Ground by Intersection
STP 6-13B24-SM-TG	071-510-0001	Determine Azimuth Using a Protractor
	061-266-4000	Set-up and Recover the M2 or M2A2 Aiming Circle
	061-266-4008	Determine and Report the Azimuth of the Line of Fire
	061-306-6004	Perform Crater and Shell Fragment Analysis
	061-306-6005	Prepare and/or Submit Standard Shelling, Mortaring, and Bombing Report
	113-573-4003P	ENCODE AND DECODE MESSAGES USING KTC 600(*) TACTICAL OPERATIONS CODE
STP 6-13F14-SM-TG	071-074-0002	Determine a Grid Azimuth Using an M2 Compass
STP 6-13F14-SM-TG(VER11)	071-074-0002	Determine a Grid Azimuth Using an M2 Compass

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PROCESS CAPTURED DOCUMENTS AND EQUIPMENT (19-3-3105.06-A001)
(FM 19-40)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The platoon has captured enemy documents and equipment. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The platoon processes documents and equipment IAW applicable FM and instructions and time limits established by higher headquarters.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The platoon tags all captured documents and equipment, annotating the following: + <ul style="list-style-type: none"> a. Type of document (map, photo, orders, and so forth)/equipment (rifle, radio, and so forth). b. Date and time of capture. c. Place of capture (grid coordinates). d. Capturing unit. e. Circumstances of capture. f. Prisoner's name (if taken from EPW). 2. Platoon leader reports the following information to company headquarters. + <ul style="list-style-type: none"> a. Report type of document/equipment b. Report date and time of capture. c. Report place of capture (grid coordinates). 3. Platoon leader disposes of documents and equipment according to guidance from higher headquarters. + <ul style="list-style-type: none"> a. Destroys, secures, evacuates, or abandons captured equipment equipment in accordance with the disposition instructions. b. Evacuate documents through the chain of command to intelligence personnel. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	191-377-5250	HANDLE ENEMY PERSONNEL AND EQUIPMENT

SUPPORTING INDIVIDUAL TASKS

References

Task Number

Task Title

191-379-4450

PROPER HANDLING OF ENEMY
PERSONNEL AND EQUIPMENT AT UNIT
LEVEL

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: OCCUPY A TACTICAL ASSEMBLY AREA (06-2-A003)
 (FM 6-60) (FM 7-10 (HTF)) (FM 6-50)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is conducting combat operations and is ordered to occupy an assembly area. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The advance party occupies the tactical assembly area IAW commander's guidance and unit TSOP. The battery moves into their assigned position completes preparation as specified by the OPORD. The battery complies with the rules of engagement (ROE).

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The advance party, under the supervision of the BC, moves to the assembly area and prepares the area for the main body arrival. +</p> <ul style="list-style-type: none"> a. Establishes initial security. b. Reconnoiters the area. c. Prepares the area IAW the TSOP. d. Assigns the section sectors. e. Checks for and marks or removes enemy obstacles and mines. f. Checks the area for NBC contamination. g. Selects the anti-armor firing positions on armor avenues of approach. h. Establishes internal/external wire communications. i. Selects element locations. <p>2. As the battery elements clear the release point, advance party members, waiting in covered and concealed positions, move out to guide them to selected or designated area without halting.</p> <p>3. Elements do not interfere with other elements during occupation. +</p> <p>4. The battery establishes and maintains local security from enemy air and ground forces. +</p> <ul style="list-style-type: none"> a. Section chiefs confirm defense sectors with the BC/1SG. b. OPs are placed on critical avenues of approach based on the commander's guidance. The OPs establish communications. c. Unit maintains noise, light, and camouflage discipline. d. Unit conducts patrols IAW the TSOP. <p>5. The unit prepares for the next mission IAW the TSOP. +</p> <p>* 6. The BC/1SG coordinates, as a minimum, with the element on the left and right. +</p> <ul style="list-style-type: none"> a. Establishes responsibility for overlapping enemy avenues of approach between adjacent sections. b. Exchanges information on OP locations and unit signals. <p>* 7. The BC/1SG develops a defense plan. +</p> <ul style="list-style-type: none"> a. Prepares the defense diagram. b. Employs all anti-armor weapons. c. Establishes automatic weapons left and right limits and/or the final protective line. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
d. Emplaces mines and obstacles, ensuring they are covered by fire. * 8. The BC/1SG forwards the defense sketch to the battalion TOC; retains one copy for unit use. 9. On leaving the tactical assembly area (TAA) the battery accomplishes the following: + a. Recovers all mines and obstacles. b. Eliminates signs of the unit's presence in the TAA (trash, aiming stakes, communication wire, etc.). c. Does not leave anything of intelligence or materiel value.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	071-312-3007	PREPARE A RANGE CARD FOR AN M60 MACHINE GUN
	071-312-3027	LOAD AN M60 MACHINE GUN
	071-312-3028	UNLOAD AN M60 MACHINE GUN
	071-325-4425	EMPLOY AN M18A1 CLAYMORE MINE
	071-325-4426	RECOVER AN M18A1 CLAYMORE MINE
	071-326-0513	SELECT TEMPORARY FIGHTING POSITIONS
	071-326-5703	CONSTRUCT INDIVIDUAL FIGHTING POSITIONS
	071-331-0804	PERFORM SURVEILLANCE WITHOUT THE AID OF ELECTRONIC DEVICES
	071-331-0815	PRACTICE NOISE, LIGHT, AND LITTER DISCIPLINE
	071-331-0852	CLEAR A FIELD OF FIRE
STP 21-24-SMCT	031-503-2001	USE M256 OR M256A1 CHEMICAL AGENT DETECTOR KIT
	031-504-3001	SUPERVISE POSITIONING OF THE CHEMICAL AGENT ALARM
STP 6-13B1-SM	071-326-5705	ESTABLISH AN OBSERVATION POST
	071-326-5770	PREPARE A PLATOON SECTOR SKETCH
	061-275-8010	Use Field Wire Laying Techniques
	071-022-0001	Perform Operator Maintenance on a Caliber .50 M2 Machine Gun
	071-022-0003	Operate a Caliber .50 M2 Machine Gun
STP 6-13B24-SM-TG	071-022-0010	Mount a Caliber .50 M2 Machine Gun on an M3 Tripod
	061-266-3313	Prepare Range Card(s) for a Howitzer
	061-266-4014	Prepare and Defend a Unit Against an Attack

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-266-4015	Conduct the Battery or Platoon Reconnaissance, Selection, and Occupation of a Position
STP 6-13C14-SM-TG	061-275-8006	Operate as a Net Control Station (NCS)
	061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals
STP 6-13D14-SM-TG	061-275-8006	Operate as a Net Control Station (NCS)
	061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals
STP 6-13M14-SM-TG	061-310-8004	Operate the M993
	061-310-8008	Enter Operational Area Data into the FCS
	061-310-8011	Perform Ground Reconnaissance of a Firing Platoon Area
STP 6-13P14-SM-TG	061-310-8022	Operate the M985 and M989A1
	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-275-8006	Operate as a Net Control Station (NCS)
	061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals
STP 6-82C14-SM-TG	061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY
 BATTERY HEADQUARTERS

TASK: CONDUCT BATTERY PRE/REDEPLOYMENT OPERATIONS (06-2-A066)
 (FM 6-20-1) (AR 220-10)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is located at its garrison location before deployment. The battery has received notification of impending deployment. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The battery conducts pre/deployment operations IAW commander's guidance and applicable ARs and FMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>NOTE: Steps 1 and 2 are pre alert steps. The unit performs these steps in a continuous process of preparations for deployment.</p> <p>* 1. The BC ensures the following: +</p> <ul style="list-style-type: none"> a. Verifies unit movement officer (UMO) orders. b. Verifies UMO has automated unit equipment list (AUEL). c. Validates unit movement books. d. Verifies certified hazardous cargo personnel are trained. e. Verifies air load and rail load teams are trained. f. Verifies security manager. g. Verifies document custodian and alternate. h. Verifies unit mail clerk. i. Verifies pay and Class A agents. j. Verifies personnel have zeroed their assigned weapon. <p>2. The battery provides support in preparation for deployment as follows: +</p> <ul style="list-style-type: none"> a. Ensures personnel information is updated and accurate. b. Ensures soldier readiness processing is conducted. c. Maintains personnel readiness files. d. Ensures that medical and dental examinations are current and that required medical warning tags are issued. e. Ensures that unit members are human immunodeficiency virus (HIV) tested periodically. f. Ensures that immunizations are current. g. Ensures personnel who wear glasses and/or hearing aids have extra sets. h. Ensures that all personnel have appropriate identification tags and documents. i. Ensures that personnel have required security clearances. j. Screens personnel for non-deployable members. k. Updates family care plans. l. Prepares signature cards, as applicable. m. Prepares and maintains a unit alert roster. n. Ensures the family support group (FSG) documents have been completed. o. Designates and briefs rear detachment personnel. <p>NOTE: Battery has been alerted.</p> <p>3. The battery prepares to deploy and does the following: +</p> <ul style="list-style-type: none"> a. Recalls unit personnel. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>b. Establishes security around unit, marshaling areas, and loading areas. c. Disconnects unnecessary phones. d. Conducts a muster formation to brief personnel and verify accountability. e. Coordinates time/location/number of vehicles for temporary POV storage. f. Inventories organizational clothing and equipment. g. Inventories personnel property and prepares for shipment or storage. h. Ensures hazardous cargo is packaged, marked, and appropriate documentation is on hand. i. Up loads all equipment and prepares vehicles and containers according to load plans. j. Draws weapons and NBC equipment. k. Moves vehicles and equipment to staging area. l. Moves personnel to secure holding area.</p> <p>NOTE: Battery deploys by air.</p> <p>* 4. BC ensures the following: a. Final inspections and preparations are conducted. b. Shoring is on hand. c. Manifests are accurate. d. Vehicles are separated into chalk order. e. Mechanical deficiencies identified by the Departure Airfield Control Group (DACG) are corrected. f. Loads are adjusted as directed by the DACG. g. Plane loads move to a designated ready line. h. Load master is assisted by battery personnel. i. Battery security is maintained.</p> <p>NOTE: Battery conducts surface movement. Unit convoy is the primary means for moving wheeled vehicles to the seaport of embarkation (SPOE).</p> <p>* 5. BC ensures the following: a. All vehicles have a qualified driver and assistant driver. b. All vehicles have emergency equipment. c. Convoy commanders are designated for march unit. d. Convoy clearance numbers are placed on all vehicles. e. Lead vehicle carries a blue flag and "convoy follows" sign. f. Trail vehicle carries a green flag and "convoy ahead" sign. g. Convoy commander's vehicle is designated with a black and white flag. h. Convoy commanders brief all personnel. As a minimum the following is briefed: (1) Safety. (2) Route. (3) Local traffic laws. (4) Convoy speed. (5) Catchup speed. (6) Vehicle intervals. (7) Scheduled rest halts. (8) Accident procedures. i. Super cargo personnel have been designated and placed on orders. j. Upon arrival at the SPOE battery personnel assist the load master and provide security.</p> <p>NOTE: Battery deploys by rail.</p> <p>* 6. BC ensures the following: a. Final Deployment Equipment List (DEL) is turned in.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
b. Movement from marshaling area to staging area is coordinated. c. Train commanders are appointed. d. Security for equipment is coordinated. e. All vehicles have a qualified driver and assistant driver. f. Vehicles depart the staging area in load plan sequence. g. Load teams tie down and secure vehicles under the direction of the railroad inspector. h. All personnel involved with the rail head enforce the following: <ol style="list-style-type: none"> (1) Kevlar helmets and gloves are worn. (2) Rail car is in proper condition to load. (3) Standard hand signals are understood and used. (4) Ground guides direct all vehicle movement and have visual contact with the driver at all times. (5) Vehicles are operated in the lowest gear when loading rail cars. (6) Personnel do not jump on or off rail cars. (7) Personnel do not walk backwards while loading a vehicle on a rail car. (8) Personnel do not walk or stand on same rail car as vehicle being guided. (9) Personnel do not run while ground guiding. (10) Personnel do not sit under rail cars. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

“*” indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	071-328-5301 850-001-2001	INSPECT PERSONNEL/EQUIPMENT ASSESS POTENTIAL FOR ACCIDENTS
STP 21-I-MQS	03-9007.01-0020 04-3304.01-0002 04-8951.00-0832 03-3711.12-0001 03-4651.90-0001 03-4976.90-0501 03-9001.10-0004 03-9001.13-0001	Give Briefings Conduct Inspection Conduct Training Implement Operations Security Supervise Training and Licensing of Unit Equipment Operators Prepare a Materiel Condition Status Report Apply the Ethical Decision-Making Process as a Commander or Staff Officer Solve Problems Using the Military Problem Solving Process
STP 6-13II-MQS	01-2999.99-0600	Command a Battery

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY HEADQUARTERS
 FIRING BATTERY HEADQUARTERS
 FIRE DIRECTION CENTER
 HOWITZER SECTION
 AMMUNITION SECTION
 FIRING PLATOON HEADQUARTERS

TASK: CONDUCT AIRBORNE OPERATIONS (06-2-E001)
 (FM 90-26) (FM 100-27) (FM 6-50)
 (FM 90-4) (TM 9-1015-234-10) (TM 9-1015-252-10)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery has been ordered to conduct an airborne operation. Air Force aircraft are available. Date, time, and departure and arrival airfields are specified. The ground tactical, marshaling, loading and landing plans are available. The battalion staff has planned the operation. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The battery conducts airborne operations to support the maneuver force OPORD IAW commander's guidance, TSOP, movement plan, load plan and applicable FMs and TMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The BC/1SG assembles and briefs personnel IAW TSOP. * 2. The BC/1SG maintains contact with the battalion staff to ensure complete coordination of the battery requirements in the following: <ul style="list-style-type: none"> a. Ground tactical plan. b. Fire support plans. c. Field artillery support plans. d. Loading priorities and cross loading with maneuver elements. e. Times for movement to heavy drop rigging site (HRDS), Joint Inspection (J/I), and loading into aircraft. f. Information concerning the drop zone (DZ), such as enemy situation, hazards & obstacles, assembly areas, signals, and survey control. * 3. The battery conducts marshaling area activities. The BC/1SG ensures the following: + <ul style="list-style-type: none"> a. Soldiers are assembled, organized, and marked. b. Soldiers are cross loaded. c. Sustained airborne training is conducted. d. Equipment to be heavy dropped is moved to the HDRS at the correct time. e. All equipment and correct ammunition are loaded on the platforms. f. Vehicles are sequenced IAW the movement plan and loaded IAW load plans. g. All equipment for combat is rigged correctly and loads are properly marked for ease of identification on the DZ. h. Personnel are briefed on tactical operations. i. Rehearsals are conducted. j. Final inspections of personnel and equipment are conducted. * 4. Battery conducts the operation. Leaders do the following: + 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>a. Ensure beanbag lights and chemlights are activated in the aircraft. Ensure battery has backup signal(s) for heavy drop platforms.</p> <p>b. Ensure jumpers exit on or near the heavy equipment point of impact (HEPI).</p> <p>c. Ensure battery immediately derigs equipment and personnel, conducts unit assembly procedures IAW TSOP, and moves off the DZ if required.</p> <p>NOTE: The tactical situation may require the unit to attain a firing capability on the DZ.</p> <p>5. The battery conducts drop zone mission. +</p> <p>a. 105MM Fifteen minutes during the day. Twenty-five at night.</p> <p>b. 155MM Twenty-five minutes during the day. Forty minutes at night</p> <p>NOTE: Time starts when the last jumper, first pass, exits the aircraft. Time stops when FDC receives call for fire, constructs and checks charts, plots targets, computes data and sends to howitzer. The howitzer(s) is laid, prefire checks are complete, firing data applied, round prepared and positioned.</p> <p>* 6. BC/1SG assembles all personnel and reports strength accountability to the battalion staff immediately upon occupation of position.</p> <p>7. Battery maintains noise and light discipline and security.</p>		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

“*” indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	051-196-3065	PREPARE A ROUTE RECONNAISSANCE OVERLAY
	071-326-5705	ESTABLISH AN OBSERVATION POST
	071-328-5301	INSPECT PERSONNEL/EQUIPMENT
	551-721-4326	PERFORM DUTIES AS CONVOY COMMANDER
STP 6-13B24-SM-TG	061-266-3301	Direct the Preparation of a Howitzer for Firing

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: FIRING PLATOON HEADQUARTERS
 FIRE DIRECTION CENTER
 HOWITZER SECTION
 BATTERY HEADQUARTERS
 FIRING BATTERY HQ
 FIRING BATTERY HEADQUARTERS
 2 FIRING PLATOON HQ

TASK: CONDUCT AIR ASSAULT OPERATIONS (06-2-E002)
 (FM 90-4) (FM 55-450-1) (FM 6-50)
 (TM 9-1015-234-10) (TM 9-1015-252-10)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is conducting combat operations and has been ordered to conduct a planned air assault movement. The battery has been given guidance to include the location of the new position area, pickup and landing zones (PZ/LZ), times, and coordinating instructions. The LZ is secure and the advance party has prepared the position. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The battery secures and rigs all equipment IAW FMs, TMs and pilot/crew chief directions. The battery occupies the LZ and establishes a firing capability IAW commander's guidance, OPORD and TSOP.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The BC/XO conducts air mission brief (AMB) with the air mission commander (AMC). * 2. The BC/Platoon leader/ Platoon Seargent assembles and briefs personnel on the mission IAW TSOP. + <ul style="list-style-type: none"> a. Briefs all personnel on the following: <ul style="list-style-type: none"> (1) Mission. (2) Method of movement. (3) General enemy situation. (4) Use of communications. (5) pick up zone (PZ) and landing zone (LZ) operations and safety. (6) Rehearsal times and location. b. Briefs key personnel on the following: <ul style="list-style-type: none"> (1) Route of movement to the LZ. (2) Location of PZ and LZ. (3) Time of displacement. (4) Azimuth of fire. (5) Tentative location of battery center. 3. The battery establishes communications with the lift unit. Primary and alternate frequencies must be identified. + 4. The battery ensures PZ is marked and identified. + * 5. The BC/1SG organizes troops and equipment into chalks and assigns chalk leaders. + * 6. The chalk leaders ensure the following: <ul style="list-style-type: none"> a. All personnel know which aircraft and which position to load. b. All personnel wear or carry rucksack on the aircraft. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>c. Notify the crew chief when all personnel are on board.</p> <p>7. All sections prepare for airlift at PZ as follows: + When rigging the equipment, insure that the proper steps are followed as outlined in FM 55-450-1 and/or the appropriate equipment manual</p> <ol style="list-style-type: none"> a. Howitzers, vehicles, A-22 bags. and cargo nets are rigged for internal or external loading.+ b. Loads are properly identified and marked. <p>8. The battery ensures hookup teams are properly equipped. Static probes and goggles or protective mask are required as a minimum.+</p> <p>9. The battery maintains noise and light discipline in rear and forward areas and PZ and LZ.</p> <p>NOTE: For night air assaults, unit must use flashlights, beanbag and marking lights, IR strobes, or chem lights (bright lights are not a viable operation when pilots are flying with the assistance of night observation devices (NODs). The decision of what light to use should be made by the pilots.</p> <p>10. The battery maintains security in rear and forward areas and PZ and LZ.</p> <p>11. The advance party secures LZ and position area and ensures LZ is properly organized. Minimum personnel are used for advance party.</p> <p>12. The battery conducts LZ operations as follows:</p> <ol style="list-style-type: none"> a. The crews unload on order of aircraft crew chief. b. The individuals will move 15-20 meters out from the side of the aircraft and assume the prone position facing away from the aircraft, weapons at the ready, until the aircraft has departed the LZ. c. After aircraft depart the LZ crews immediately de-rig equipment. <p>13. The battery attains firing capability. + NOTE: Add 5 minutes for night occupation.</p> <ol style="list-style-type: none"> a. 102/M119A1-Battery 12 minutes. b. M198-Battery 13 minutes, Platoon 10 minutes. <p>14. The battery defends against ground attack during insertion as follows:</p> <ol style="list-style-type: none"> a. Fires and maneuvers off the LZ to the closest side offering cover and concealment. b. Coordinates employment of all available fire support on enemy forces. c. Accounts for personnel and equipment once disengaged from the enemy. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B24-SM-TG	061-266-3301	Direct the Preparation of a Howitzer for Firing

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PREPARE FOR AIR MOVEMENT (06-2-E006)
(FM 55-450-1)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery commander has issued a movement order that includes air movement, and the date and time of departure/arrival at the airfield or landing zone/pickup zone (LZ/PZ). Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The battery prepares all platoon and section vehicles, equipment, supplies, and personnel for air movement IAW guidance in the movement order and FM 55-450-1.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The battery commander notifies the platoon leaders and the chief of firing battery of the upcoming air operation.</p> <ul style="list-style-type: none"> a. All personnel are briefed on the following items. <ul style="list-style-type: none"> (1) Date, time, location of departure, and marshaling areas. (2) Method of movement, movement schedule. (3) Actions upon arrival at LZ and PZ b. Ensures concealment of unit markings on all equipment, vehicles, and personnel. c. Briefs actions during loading. <p>2. Platoons and/or sections make all necessary preparations for air movement.</p> <ul style="list-style-type: none"> a. Ensures equipment and vehicle inspections are completed at designated staging and marshaling areas before loading. + b. Packs and loads all equipment according to vehicle load plans. + c. Reduces all vehicles to lowest possible configuration. d. Determines center of gravity for each item to be moved. Marks center of gravity on each. e. Packages and marks all hazardous material on appropriate form(s). f. Moves equipment to PZ or airfield, when directed. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS: NONE

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY HEADQUARTERS
 FIRING PLATOON HEADQUARTERS
 FIRING BTRY HQ
 FIRING BATTERY HEADQUARTERS

TASK: PERFORM RECONNAISSANCE OPERATIONS (PALADIN UNITS) (06-2-G010)
 (FM 6-70) (ST 6-50-60) (FM 6-50)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is conducting combat operations. It must displace one or both platoons to provide FA fires in support of maneuver forces. The BC has received a warning order from higher HQ. The BC has received an area to reconnoiter for future operations. He may or may not have received specific movement orders. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The Commander will move the firing platoon(s) IAW higher HQ guidance, survey support, applicable FMs, and TMs. The BC/platoon recon element plans and conducts reconnaissance of the new position, arranges for update locations along the route of march, and selects initial howitzer firing areas within the position area.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The BC plans the reconnaissance as follows:</p> <ul style="list-style-type: none"> a. He issues a warning order and assembles the platoon recon elements from one or both platoons. + b. The BC briefs key personnel from the platoon recon element on the following: + <ul style="list-style-type: none"> (1) Tactical situation. (2) Primary and alternate routes. (3) Checkpoints. (4) Rally points. (5) Proposed R3SP locations. (6) Movement time. c. The BC and gunnery sergeant/recon sergeant perform a map reconnaissance. + d. The gunnery/recon sergeant recons the route to the new position and emplaces the SCPs if the unit is not using a R3SP location. <ul style="list-style-type: none"> (1) If not using a R3SP location, the unit should establish 3 survey control points along the route of march approximately 50 - 100 meters apart. This will allow all the howitzers to perform a navigation update at same time. (2) The SCPs should be easily identifiable, accessible, and within a reasonable distance from the release point. This will ensure the circular error of probability does not exceed 18 meters. This error is cumulative, therefore the more often the AFCS is updated the less the error. (3) The navigation update points may be emplaced with a secure GPS system. The update points established by secure GPS must be validated by a second independent source as soon as time permits. <p>* 2. During the ground recon, the recon element performs the following functions:</p> <ul style="list-style-type: none"> a. Verifies the map reconnaissance. b. Reports the suitability of the position to the battery/battalion CP. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
c. Confirms R3SP locations. d. The recon element identifies track plans, obstacles, and pays close attention to site to crest, cant, and communications +. e. They coordinate with friendly elements within the vicinity. * 3. The recon element performs the following: a. Selects the proposed POC position. + b. Establishes SCPs either with battalion survey or secure GPS. + NOTE: Any location established by secure GPS must be validated by a second independent means. c. Conducts a radio check from the proposed POC position with higher HQ. + d. Reconnoiters resupply point. e. Begins preparation of the platoon defense diagram. f. The recon element establishes an OS and EOL as time permits. This will facilitate the ability to perform degraded operations if needed. This is considered position improvement.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	071-329-1000	Identify Topographic Symbols on a Military Map
	071-329-1001	Identify Terrain Features on a Map
	071-329-1002	Determine the Grid Coordinates of a Point on a Military Map
STP 21-24-SMCT	051-196-3065	PREPARE A ROUTE RECONNAISSANCE OVERLAY
	071-326-3013	CONDUCT A TACTICAL ROAD MARCH
STP 6-13B1-SM	071-329-1004	Determine the Elevation of a Point on the Ground Using a Map
STP 6-13B24-SM-TG	071-329-1030	Navigate From One Point on the Ground to Another Point, Mounted

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: FIRING PLATOON HEADQUARTERS
 HOWITZER SECTION
 2 FIRING PLATOON HQ

TASK: CONDUCT OCCUPATION OF POSITION AREA (NON PALADIN UNITS) (06-3-B003)
 (FM 6-50)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery/platoon is conducting combat operations. The battery/platoon has completed a tactical road march and has arrived at the release point .The advance party are present and has prepared the position. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The battery/platoon occupies position, establishes security, communications and is ready to deliver fires by the prescribed time. The battery/platoon establishes firing capabilities IAW FM 6-50.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>The battery/platoon observes OPSEC to avoid revealing to the enemy the location and intention of the unit.</p> <p>* 1. The BC/platoon leader directs and controls the occupation as follows:</p> <ul style="list-style-type: none"> a. Maintains interval and security when entering the area. b. Observes track plan in occupying position. c. Positions vehicles to allow for rapid entry and exit. d. Establishes firing capability immediately. + <p>NOTE: See the time standards in appendix B</p> <ul style="list-style-type: none"> e. Ensures sections establish communications. f. Enforces light and noise discipline. g. Ensures vehicles within the position move with a ground guide. <p>2. The ground guides meet the battery/platoon at the pickup point and lead section vehicles to the position area.</p> <p>3. Each gun guide performs the following:</p> <ul style="list-style-type: none"> a. Aligns the howitzer on the azimuth of fire. b. Correctly gives the initial deflection to the gunner. (4) The area is marked for day and night operations. <p>4. The gunnery sergeant performs the following: +</p> <ul style="list-style-type: none"> a. Lays the howitzers. b. Implements the security plan as personnel become available. <p>The battery/platoon has established firing capabilities</p> <p>5. The XO/Platoon leader determines, prepares, and submits XOs report as follows: +</p> <ul style="list-style-type: none"> a. Determines position minimum quadrant elevation (QE) to nearest 1.0 mil for all charges to be fired and a safe time for all fuses. b. Prepares and submits XOs report to the FDC as soon as possible. <p>Elements are reported as determined. As a minimum, report the following:</p> <ul style="list-style-type: none"> (1) Battery/Platoon is laid (2) Azimuth of lay. (3) Orienting angle (if applicable) (4) Minimum QE. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
(5) Distribution of pieces (deflection, vertical angle, and distance from aiming circle. c. Submits additional information as required and available to include: (1) Left and Right limits. (2) Maximum elevation. (3) Ammunition count by type to include: (a) Amount (projectile, fuze, and propellant). (b) Lot numbers. (4) weight of projectiles by lot.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
No STP and No MOS	061-320-5301	Set Up the Gun Laying Positioning System (GLPS)
	061-320-5302	Recover the Gun Laying Positioning System (GLPS)
	061-320-5303	Orient the Gun Laying Positioning System (GLPS) with the PLGR
	061-320-5304	Orient the GLPS for Direction Using Know Position
	061-320-5305	Orient the GLPS for Direction Using Back Polar Plot Method
	061-320-5306	Lay the Battery or Platoon Using the Gun Laying Positioning System (GLPS)
	061-320-5307	Establish Survey Control Using the Guy Laying Positioning System (GLPS)
STP 6-13B1-SM	061-266-1101	Prepare a Position to Receive/Emplace a Howitzer (Advance Party)
	061-271-1212	Boresight the Direct Fire Telescope by Using a Distant Aiming Point. (DAP) (M198)
STP 6-13B24-SM-TG	061-266-2002	Lay a Howitzer for Initial Direction of Fire by Reciprocal Lay by Using the Panoramic Telescope
	061-266-2003	Lay a Howitzer for Initial Direction of Fire Without an Aiming Circle by Using the Panoramic Telescope
	061-266-4000	Set-up and Recover the M2 or M2A2 Aiming Circle
	061-266-4006	Orient the M2 or M2A2 Aiming Circle and Lay the Battery or Platoon
	061-266-4009	Compute Position Minimum Quadrant Elevation (Min QE)

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-266-4011	Prepare and Submit Weapons Location Data Card
	061-266-4014	Prepare and Defend a Unit Against an Attack
	061-266-4015	Conduct the Battery or Platoon
		Reconnaissance, Selection, and Occupation of a Position
	061-271-3430	Perform Prefire Checks (M198)
STP 6-13E13-SM-TG	061-280-5007	Perform FDC Advance Party Procedures

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY HEADQUARTERS
 FIRING PLATOON HEADQUARTERS
 2 FIRING PLATOON HQ

TASK: MOVE A CANNON BATTERY OR PLATOON (06-3-C013)
 (FM 6-50) (FM 6-70) (STP 06-1001)
 (STP 21-1-SMCT) (STP 21-24-SMCT) (STP 21-II-MQS)
 (STP 6-13B1-SM) (STP 6-13B24-SM-TG) (STP 6-13II-MQS)
 (ST 6-50-60)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery/platoon is conducting combat operations and has received an order to move. The order specifies the general position to be occupied; a "no-later-than" time for the advance party to depart to conduct reconnaissance; the route of march including start point, checkpoints, and release point; and a specific time the battery/platoon must be prepared to provide fires from the new position. The order also specifies the no earlier time the battery platoon can cease its firing capability. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The battery/platoon must be in position and ready to provide fires at the prescribed time in the movement order and IAW unit TSOP, applicable FMs and commander's guidance.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The battery/platoon conducts reconnaissance operations as follows: <ul style="list-style-type: none"> a. The BC/platoon leader performs a map reconnaissance of the designated route and position and takes into consideration all applicable aspects of intelligence preparation of the battlefield (IPB). b. The BC/platoon leader considers primary and alternate routes. c. The BC/platoon leader determines the type of reconnaissance to use and plans reconnaissance. (If situation permits conducts a ground reconnaissance). d. The BC/platoon leader plans and arranges supporting fires for movement. e. The BC/platoon leader coordinates with controlling HQ to determine method of controlling fires during move. f. The BC/platoon leader coordinates for survey IAW TSOP. + g. The BC/platoon leader briefs key personnel on all information to include the following: + <ul style="list-style-type: none"> (1) Situation. (2) Mission. (3) Execution. (4) Administration and logistics. (5) Command and signal. h. The recon sergeant assembles, briefs, and inspects the advance party. i. The advance party departs the current position at or before the specified time. j. The BC/platoon leader confirms his map reconnaissance while conducting the ground reconnaissance to the new position. k. The BC/platoon leader selects areas within the designated position area that allow for delivery of fires. l. The BC/gunnery sergeant selects SCPs within the position area. (PALADIN UNITS ONLY) 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>m. The BC/recon sergeant selects rearm, refuel, resupply survey control point (R3SP) locations along the route that are easily identifiable.</p> <p>n. The advance party sweeps and secures the area designated to ensure that the area is free of enemy/obstacles.</p> <p>NOTE: The advance party is not normally manned or equipped to clear areas of organized enemy activity, mines, or NBC hazards. If these threats or conditions are present in the proposed position area, the advance party breaks contact with enemy forces or marks minefields and hazards and moves on to find another position area.</p> <p>o. The recon sergeant identifies to each gun guide the exact location and azimuth for his howitzer. (NONPALADIN UNITS ONLY).</p> <p>p. The recon sergeant/advance party prepares the position to facilitate survivability and does the following:</p> <ol style="list-style-type: none"> (1) Coordinates with survey team (if in the position area). (2) Conducts a radio check with battalion from the proposed BOC/POC location. (3) Selects SCP positions within the area (if survey is not already in the position area) (PALADIN UNITS ONLY). (4) Begins preparation of the defense diagram and position area map. <p>q. If occupying in the light-light concept the BC/1SG must select HQ element positions.</p> <p>* 2. The battery recovers and prepares for movement. The convoy commander briefs section chiefs on the following: Start point, Checkpoints, Release point, Method and route of march, Order of march, Coordinating instructions, Actions to be taken in the event of an enemy attack en route, Threat.</p> <ol style="list-style-type: none"> a. The convoy commander issues the order PREPARE TO MARCH ORDER at a designated time or on the BC's order. b. Section chiefs perform the following: <ol style="list-style-type: none"> (1) Before operation checks of vehicles. (2) Brief section personnel. (3) Assign observation sectors to air guards. (4) Ensure ammunition and all equipment are loaded and secured IAW loading plans. <p>NOTE: Howitzer sections maintain firing capability until time specified in the order.</p> <ol style="list-style-type: none"> (5) Ensure all communications equipment is installed and operational. (6) Check all night lighting devices (if applicable). (7) Maintain light and noise discipline. (8) Maintain security. <p>c. The convoy commander issues MARCH ORDER at a specified time or on order of the BC.</p> <p>3. The battery performs a tactical march as follows:</p> <ol style="list-style-type: none"> a. The convoy commander IAW the BC's guidance and enemy situation, directs the method of movement. <ol style="list-style-type: none"> (1) Open column. (2) Closed column. (3) Terrain march. (4) Infiltration. b. The convoy commander ensures all vehicles join the march column in an orderly manner. c. The section chiefs ensure drivers maintain proper interval, 100 meters for open column and less than 100 meters for closed column. d. The section chiefs maintain march discipline and security. Post air guards and machine guns. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
e. The convoy commander crosses and reports start point, checkpoints, and release point at specified times unless moving under radio listening silence.		
f. The section chiefs ensure drivers travel close to tree lines, gullies, and hill masses in terrain march.		
g. The convoy commander controls individual vehicle movement (infiltration).		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
No STP and No MOS	113-587-2001	Operate Radio Set AN/PRC-77 or AN/PRC-25
	113-622-2011	Operate Intercommunications Set AN/VIC-1 on a Tracked Vehicle (Includes FM Radio)
STP 21-1-SMCT	071-329-1000	Identify Topographic Symbols on a Military Map
	071-331-0815	PRACTICE NOISE, LIGHT, AND LITTER DISCIPLINE
	551-721-1352	Perform Vehicle Preventive Maintenance Checks and Services (PMCS)
STP 21-24-SMCT	071-326-0515	SELECT A MOVEMENT ROUTE USING A MAP
	071-326-0515	SELECT A MOVEMENT ROUTE USING A MAP
	091-309-0710	SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES
STP 21-II-MQS STP 6-13B1-SM	O4-3303.02-0014	Prepare Platoon or Company Combat Orders
	061-266-1501	Load and Secure Ammunition in Preparation for Transporting
STP 6-13B24-SM-TG	061-307-1602	Operate the AN/VSS-2 Driver's Night Vision Device (M109A6)
	061-266-3501	Monitor Loading and Securing of Ammunition in Preparation for Transporting/Firing
	061-266-4000	Set-up and Recover the M2 or M2A2 Aiming Circle
	061-266-4015	Conduct the Battery or Platoon Reconnaissance, Selection, and Occupation of a Position
	061-357-2000	Direct the Preparation of the M992 Carrier Ammunition Tracked (CAT) for Operation
	113-573-4006	USE THE KTC 1400(*) NUMERAL CIPHER AND AUTHENTICATION SYSTEM
	113-587-2061	Operate Radio Set AN/VRC-64 or AN/GRC-160 with TSEC/KY-57
	113-587-2064	Operate Radio Set AN/VRC-12 or AN/VRC-47 with TSEC/KY-57

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	551-721-3334	Supervise Preventive Maintenance Checks and Services (PMCS)
STP 6-13E13-SM-TG	061-279-5009	Process a Movement Order Using AFC/DS(M109A6)
	061-280-5007	Perform FDC Advance Party Procedures
STP 6-13II-MQS	01-2999.99-0600	Command a Battery
	01-2999.99-0600	Command a Battery

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: HOWITZER SECTION

TASK: PERFORM A SURVIVABILITY MOVE (PALADIN ONLY) (06-4-G000)
 (FM 6-70) (ST 6-50-60)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The platoon/battery is conducting combat operations. A platoon of howitzers are required to move to provide fires in support of maneuver forces and to increase survivability. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The section(s) load all section equipment, maintain communications and move to another firing position within the platoon or battery area of operations IAW TSOP or tactical guidance.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The section chiefs alert personnel to prepare to move and ensure the following: + a. All equipment and ammunition are loaded and secured. b. Communications with the platoon operations center (POC) is maintained at all times, and POC is informed when moving. c. Visibility is maintained between howitzer when in platoon operations. d. Automated fire control system (AFCS) is updated with current data (max and min tube elevation and site data). e. POC is updated with current powder temperature and piece status.. 2. Survivability: Movement criteria within position is area generally dictated by S-3 in the field artillery support plan. It may also be based on the situation or the battery commander may dictate a survivability move. Movement criteria should be addressed in the unit TASOP and firing sections should move accordingly.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B24-SM-TG	061-307-3561	Navigate from One Point on the Ground to Another Using the Automatic Fire Control System (M109A6)
STP 6-13E13-SM-TG	061-279-5009	Process a Movement Order Using AFC/DS(M109A6)

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: TANK CO FIST
 MECH INF CO FIST
 CAV/TRP FIST
 COLT
 TRP FIST

TASK: ESTABLISH AN OBSERVATION POST (FIRE SUPPORT TEAM) (06-5-A006)
 (FM 6-30)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is conducting combat operations. The enemy situation requires continuous observation of the battle area. Essential fire support tasks (EFSTs) have been assigned to the fire support team/combat observation and lasing team (FIST/COLT) for execution. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The FIST/COLT selects a position that provides continuous observation of the assigned engagement area, NAI, TAI, or Objective, suitable evaluation of effects of fires on targets, and an ability to communicate IAW unit TSOP, applicable FMs and commander's guidance.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The fire support (FS) sergeant establishes and maintains an observation capability as follows:+</p> <ul style="list-style-type: none"> a. Establishes and maintains communications with supported unit FSOs, FSEs, and/or appropriate FDCs. b. Conducts a thorough terrain map analysis of the area of operations of the supported unit's area of operation. <p>* 2. The FS sergeant selects and occupies an observation post (OP)/lasing position.+</p> <ul style="list-style-type: none"> a. The FS sergeant selects a position that allows observation of assigned zone of action, takes advantage of existing cover and concealment, avoids landmarks and prominent terrain features, and provides concealed access and exit routes to the position. b. The FIST/COLT occupies a selected position without detection by enemy forces. c. The FS sergeant uses techniques that make communications more reliable and less vulnerable. d. The FS sergeant prepares a terrain sketch as time and situation permit. e. The FS sergeant orients the observed fire (OF) fan, if available, on the map. <p>3. The FIST/COLT gathers operational information.</p> <ul style="list-style-type: none"> a. Determines location using global positioning system (GPS) receivers. b. The FS sergeant obtains current locations of forward deployed maneuver elements and other observers. <p>NOTE: The observer is equipped with a laser locator/range finder and has occupied a new position (without GPS capability).</p> <ul style="list-style-type: none"> c. The FS sergeant prepares laser locator/range finder for operation. d. The FS sergeant determines location without GPS (+/- 50 meters radius of actual observer location). The following methods may be used: <ul style="list-style-type: none"> (1) Ranging at least two known points. (2) Determining direction to both points. (3) Performing map resection. <p>NOTE: Observer does not have a laser locator/range finder or GPS capability.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
e. The FS sergeant determines location (within 100 meters of actual location) by using a map and M2 compass (performs map resection).		
* 4. The FS sergeant reports information to FIST HQ, FSE, or FDC.+		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	071-329-1004	Determine the Elevation of a Point on the Ground Using a Map
	071-329-1009	Convert Azimuths
	071-329-1014	Locate an Unknown Point on a Map and on the Ground by Intersection
	071-329-1015	Locate an Unknown Point on a Map and on the Ground by Resection
STP 6-13C14-SM-TG	061-300-5008	Enter the Field Artillery Support Plan Text (AFATDS Units)
	061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)
STP 6-13D14-SM-TG	061-299-5015	Write the Automated Fire Support Tab to the Fire Support Plan of an OPORD
STP 6-13E13-SM-TG	061-279-5013	Process a Fire Plan Using the AFC/DS
STP 6-13F14-SM-TG	061-274-5000	Determine Observer Location Information Using the AN/TVQ-2 (G/VLLD) (Dismounted Mode)
	061-283-1001	Determine Direction Within the Target Area
	061-283-1959	Determine Self-location with the AN/GVS-5 Laser Range Finder (LRF)
	061-283-2051	SELECT AND OCCUPY AN OBSERVATION POST
	061-283-5001	Prepare the AN/GVS-5 Laser Range Finder (LRF) for Operation
	061-283-5002	Construct a Terrain Sketch
	061-283-5010	Request and Adjust Area Fire Using the AN/GVS-5 Laser Range Finder (LRF)
	061-284-1001	PREPARE/SUBMIT FORWARD OBSERVER TARGET LIST
	061-284-3030	Request Close Air Support (CAS)
	061-284-3220	Establish the Fire Support Team (FIST) Headquarters Communications
	061-284-3226	Produce Company Fire Support Plan
	061-284-3227	Process Forward Observer Target Lists
	061-284-4221	Establish Fire Support Element Communications

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-301-5000	Process Recorded Targets and Known Points Using the AN/PSG-7
	061-301-5001	Process a Precision Registration Mission Using the AN/PSG-7
	061-301-5002	Process an Area Fire Mission Using the AN/PSG-7
	061-301-5006	Conduct a Final Protective Fire Mission Using the AN/PSG-7
	061-301-5007	Process Monitored Messages on the AN/PSG-7
	061-301-5008	Process Routed Messages as a Fist Using the AN/PSG-7
	061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
	061-301-5010	Process Graphics Data in the AN/PSG-7
	061-301-5011	Process Fire Plan Information Using the AN/PSG-7
	061-301-8000	Prepare the AN/PSG-7 for Operation
	061-301-8001	Perform Self-Location Using the AN/PSG-7
	061-354-2007	DETERMINE THE CLOUD HEIGHT USING THE TARGETING STATION
	061-354-2017	Remove and Stow the G/VLLD from the Targeting Head
	061-354-2022	Install the G/VLLD into the Targeting Head
	061-354-2030	Install the AN/TAS-4B into the Targeting Head
	061-354-5000	Perform Operational Checks on the Intercommunication System of the M113 Series Vehicle
	071-520-0001	Orient a Map Using a M2 Compass
STP 6-13F14-SM-TG(VER11)	061-274-5000	Determine Observer Location Information Using the AN/TVQ-2 (G/VLLD) (Dismounted Mode)
	061-283-1001	Determine Direction Within the Target Area
	061-283-1959	Determine Self-location with the AN/GVS-5 Laser Range Finder (LRF)
	061-283-2051	SELECT AND OCCUPY AN OBSERVATION POST
	061-283-5001	Prepare the AN/GVS-5 Laser Range Finder (LRF) for Operation
	061-283-5002	Construct a Terrain Sketch
	061-283-5010	Request and Adjust Area Fire Using the AN/GVS-5 Laser Range Finder (LRF)
	061-284-1001	PREPARE/SUBMIT FORWARD OBSERVER TARGET LIST
	061-284-3030	Request Close Air Support (CAS)
	061-284-3220	Establish the Fire Support Team (FIST) Headquarters Communications
	061-284-3226	Produce Company Fire Support Plan
	061-284-3227	Process Forward Observer Target Lists
	061-284-4221	Establish Fire Support Element Communications
	061-301-5000	Process Recorded Targets and Known Points Using the AN/PSG-7

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-301-5001	Process a Precision Registration Mission Using the AN/PSG-7
	061-301-5002	Process an Area Fire Mission Using the AN/PSG-7
	061-301-5006	Conduct a Final Protective Fire Mission Using the AN/PSG-7
	061-301-5007	Process Monitored Messages on the AN/PSG-7
	061-301-5008	Process Routed Messages as a Fist Using the AN/PSG-7
	061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
	061-301-5010	Process Graphics Data in the AN/PSG-7
	061-301-5011	Process Fire Plan Information Using the AN/PSG-7
	061-301-8000	Prepare the AN/PSG-7 for Operation
	061-301-8001	Perform Self-Location Using the AN/PSG-7
	061-354-2007	DETERMINE THE CLOUD HEIGHT USING THE TARGETING STATION
	061-354-2017	Remove and Stow the G/VLLD from the Targeting Head
	061-354-2022	Install the G/VLLD into the Targeting Head
	061-354-2030	Install the AN/TAS-4B into the Targeting Head
	061-354-5000	Perform Operational Checks on the Intercommunication System of the M113 Series Vehicle
	071-520-0001	Orient a Map Using a M2 Compass

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: 4 CAV/TRP FIST
 TANK CO FIST
 MECH INF CO FIST
 CAV/TRP FIST
 COLT
 TRP FIST

TASK: PLAN FIRES IN SUPPORT OF MANEUVER OPERATIONS (06-1-A048)
 (FM 6-20-20) (FM 6-20) (FM 6-20-40)
 (FM 6-20-50) (FM 6-71)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The supported unit is planning for combat operations. The OPORD/OPLAN has been issued by higher HQ and briefed. The FS annex contains Essential Fire Support Task for the company/troop FIST to execute. The commander has started formulating his order. The FIST chief is with the commander. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The Fire Support Officer prepares a FS plan IAW applicable FMs, EFSTs assigned by higher HQ, company/troop concept of the operation and that will achieve the maneuver commander's guidance.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The FIST chief participates in fire support planning IAW FM 6-20, as applied to offensive, defensive and special operations.</p> <ul style="list-style-type: none"> a. Plan early and continuously. b. Exploit available targets. c. Plans the use of lethal and non lethal attack means. d. Selects the lowest echelon capable of furnishing effective support. e. Selects the most effective means. f. Furnish the type of support requested. g. Avoid duplication. h. Coordinates airspace. i. Provide adequate support. j. Provide rapid and effective coordination. k. Uses fire support coordination measures. l. Provide for flexibility. <p>* 2. Upon mission receipt, the company FSO:</p> <ul style="list-style-type: none"> a. Conducts an analysis of higher HQ Fire Support plan to include: <ul style="list-style-type: none"> (1) Fires paragraph. (2) FS tasks to subordinates. (3) Fire support documents. (4) Reviews the friendly and enemy situation. (5) Determines FS assets and available and allocations. (6) Determines FSCMs. (7) Determines EFSTs and targets assigned by higher HQ for execution. b. Advises and assists the commander in development of fire support guidance. c. Obtains the commander's restated mission.+ <p>* 3. During the commander's warning order issue, the company FSO:</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>a. Provides the commander current FS information for incorporation.</p> <p>b. Issues a warning order to FIST on fire support specific issues (I.e., EFSTs).</p> <p>* 4. The company FSO concurrently makes a tentative FS annex based on the commander's and higher HQ FS guidance as follows:</p> <p>a. Ensures all digital systems are updated with current data.</p> <p>b. FSCMs and maneuver control measures are disseminated to the lowest level, as early as possible.</p> <p>c. Selects the method for accomplishing the EFSTs identified in the mission analysis.</p> <p>(1) Company mortars</p> <p>(2) Request Artillery</p> <p>(3) request mortars</p> <p>(4) Request CAS</p> <p>d. Integrates EFSTs (assigned by higher HQ and tasks developed based on commander's FS guidance) into a concept of fires.</p> <p>e. Advises the commander if tasks can or cannot be met with assets available and allocations.</p> <p>f. Refines procedure for the positive clearance of fires.</p> <p>g. Refines engagement criteria, planned targets, trigger points, and observers for triggers.</p> <p>h. Develops a target list work sheet.</p> <p>i. Develops a company fire support execution matrix.</p> <p>j. Briefs tentative FS plan to the commander for additional guidance, refinement, and approval to disseminate for planning purposes.</p> <p>* 5. The company FSO disseminates tentative FS plan to subordinates to facilitate movement into observation positions and conducting precombat inspections and checks on equipment.</p> <p>* 6. The company FSO accompanies company/troop commander on reconnaissance:</p> <p>a. Ensures placement of triggers for EFSTs.</p> <p>b. Designates primary and alternate observers to execute EFSTs.</p> <p>c. Develops an observation plan that includes all available observation assets.</p> <p>d. Refines/adjusts targets and EFST grid locations based on ground truth and the company commander's guidance.</p> <p>e. Nominates and deconflicts targets.</p> <p>* 7. The company FSO completes his FS plan:+</p> <p>a. Modifies FS annex based on reconnaissance.</p> <p>b. Briefs the commander for FS annex approval.</p> <p>c. Receives commander's final approval on scheme of fires.</p> <p>d. Transmits any final refinements to the task force FSE.</p> <p>e. Briefs FS subordinates early on FS annex.</p> <p>f. Prepares and distributes the appropriate fire support documents, such as:</p> <p>(1) Fire Support Matrix.</p> <p>(2) Target List Work sheet.</p> <p>(3) Fire Support Overlay.</p> <p>(4) Observation plan.</p> <p>* 8. The company FSO briefs the FS portion of the company OPORD to include:</p> <p>a. Purpose (commander's FS guidance).</p> <p>b. Priority of fires.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
c. Allocation of FS assets. d. Restrictions (I.e., FSCMs, constraints. etc). e. Scheme of fires/EFST execution in support of the scheme of maneuver. f. FS rehearsals times. g. Answers all FS related questions. * 9. The company FSO synchronizes/refines the FS plan with the maneuver plan through combined arms and FS rehearsals.+		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13F14-SM-TG	061-283-2051	SELECT AND OCCUPY AN OBSERVATION POST
	061-284-1001	PREPARE/SUBMIT FORWARD OBSERVER TARGET LIST
	061-284-3004	Advise Supported Unit of Friendly Fire Support Capabilities and Limitations
	061-284-3030	Request Close Air Support (CAS)
	061-284-3046	Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements
	061-284-3226	Produce Company Fire Support Plan
	061-284-3227	Process Forward Observer Target Lists
	061-284-5005	CONTROL CLOSE AIR SUPPORT
	061-284-5006	CONDUCT A MOVING TARGET MISSION
	061-299-5007	Process Tactical Fire Control Data
	061-299-5009	Process Artillery Target Intelligence Data
	061-299-5010	Process Fire Planning
	061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
	061-301-5011	Process Fire Plan Information Using the AN/PSG-7
	061-301-8000	Prepare the AN/PSG-7 for Operation
	061-302-8000	Enter Member and Authentication Data
	STP 6-13F14-SM-TG(VER11)	061-283-2051
061-284-1001		PREPARE/SUBMIT FORWARD OBSERVER TARGET LIST
061-284-3004		Advise Supported Unit of Friendly Fire Support Capabilities and Limitations
061-284-3030		Request Close Air Support (CAS)
061-284-3046		Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements
	061-284-3226	Produce Company Fire Support Plan

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-284-3227	Process Forward Observer Target Lists
	061-284-5005	CONTROL CLOSE AIR SUPPORT
	061-284-5006	CONDUCT A MOVING TARGET MISSION
	061-299-5007	Process Tactical Fire Control Data
	061-299-5009	Process Artillery Target Intelligence Data
	061-299-5010	Process Fire Planning
	061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
	061-301-5011	Process Fire Plan Information Using the AN/PSG-7
	061-301-8000	Prepare the AN/PSG-7 for Operation
	061-302-8000	Enter Member and Authentication Data

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: TANK CO FIST
 MECH INF CO FIST
 CAV/TRP FIST
 COLT
 TRP FIST

TASK: COORDINATE, DIRECT, AND ADJUST OTHER FIRE SUPPORT ASSETS (06-1-A050)
 (FM 6-20-10) (FM 6-30)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The supported company/troop is conducting combat operations. FA and mortar assets are inappropriate or unavailable to attack enemy targets. The targets meet the commander's attack criteria. A forward air controller, naval spotter, or aero scout are not available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The FIST engages targets with FS means other than FA and mortars and accomplishes the purpose of the EFSTs and the commander's guidance.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>1. Directs a CAS mission as follows: +</p> <ul style="list-style-type: none"> a. Requests mission and clearance through the battalion FSE. b. Provides target type, size and location by grid and elevation. c. States the desired time on target and damage. d. Provides call signs, frequencies and contact points. e. Identifies friendly locations, threats and weather conditions, in the target area. f. Plans SEAD fires, if necessary. g. Contacts flight leader en route and verifies attack information. h. Marks target by use of one of the following methods: <ul style="list-style-type: none"> (1) Artillery or mortar. (2) Adjusts from previous aircraft hits, giving reference to cardinal heading. (3) Marks target with laser designator system for aircraft, if applicable. <p>NOTE: If the pilot is not lined up on the proper target, aborts the mission by contacting the pilot. If lineup is proper, directs CLEARED HOT to continue mission and drops ordnance on target.</p> <p>2. Adjusts naval gunfire (NGF) to include the following: +</p> <ul style="list-style-type: none"> a. Considers NGF capabilities/limitations for the mission. b. Requests mission and clearance through battalion FSE. c. Transmits the CFF in two parts: <ul style="list-style-type: none"> (1) Spotter identification, warning order and target number. (2) Target location, target description, method of engagement, and method of fire and control. <p>* 3. Directs an attack helicopter strike as follows: +</p> <ul style="list-style-type: none"> a. Initiates SEAD request, if necessary. b. Specifies type/location of targets to be engaged. c. Directs the attack helicopter route in and out of area. d. Uses laser designator system, if applicable. <p>* 4. Provides appropriate battle damage assessment.</p>		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title	
STP 6-13F14-SM-TG	061-274-5100	PREPARE THE AN/TVQ-2 (GVLLD) FOR OPERATION (DISMOUNTED MODE)	
	061-284-3004	Advise Supported Unit of Friendly Fire Support Capabilities and Limitations	
	061-284-3030	Request Close Air Support (CAS)	
	061-284-3220	Establish the Fire Support Team (FIST) Headquarters Communications	
	061-284-4022	Coordinate Fires	
	061-284-5000	Request Naval Gunfire	
	061-284-5001	ADJUST NAVAL GUNFIRE	
	061-284-5005	CONTROL CLOSE AIR SUPPORT	
	061-299-5008	Perform Fire Mission Processing	
	061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7	
	061-301-8000	Prepare the AN/PSG-7 for Operation	
	061-354-2022	Install the G/VLLD into the Targeting Head	
	061-355-5100	PREPARE THE FOS HTU FOR OPERATION	
	061-355-5101	PREPARE THE FOS LCU FOR OPERATION	
	061-355-5104	Transmit Information Messages	
	STP 6-13F14-SM-TG(VER11)	061-274-5100	PREPARE THE AN/TVQ-2 (GVLLD) FOR OPERATION (DISMOUNTED MODE)
		061-284-3004	Advise Supported Unit of Friendly Fire Support Capabilities and Limitations
		061-284-3030	Request Close Air Support (CAS)
		061-284-3220	Establish the Fire Support Team (FIST) Headquarters Communications
061-284-4022		Coordinate Fires	
061-284-5000		Request Naval Gunfire	
061-284-5001		ADJUST NAVAL GUNFIRE	
061-284-5005		CONTROL CLOSE AIR SUPPORT	
061-299-5008		Perform Fire Mission Processing	
061-301-5009		Process Mission Data as a Fist Using the AN/PSG-7	
061-301-8000		Prepare the AN/PSG-7 for Operation	
061-354-2022		Install the G/VLLD into the Targeting Head	
061-355-5100		PREPARE THE FOS HTU FOR OPERATION	
061-355-5101		PREPARE THE FOS LCU FOR OPERATION	
061-355-5104	Transmit Information Messages		

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY HEADQUARTERS
 FIRING BATTERY HEADQUARTERS
 FIRE DIRECTION CENTER
 HOWITZER SECTION

TASK: CONDUCT AN AIR ASSAULT ARTILLERY RAID (06-2-E003)
 (FM 90-4) (FM 6-50) (TM 9-1015-234-10)
 (TM 9-1015-252-10)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is in position providing fires and has been ordered to conduct an air assault artillery raid. Required air assault equipment is on hand. The FA forward observers are available. The Army aviation assets are available. The advance party arrives at the LZ, 15-20 minutes, prior to the main body. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The selected elements move to PZ at the prescribed time, rig equipment and conduct the raid IAW commander's guidance, TSOP and applicable FMs and TMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The BC/XO plans air assault raid, as follows:</p> <ul style="list-style-type: none"> a. Plans mission using METT-TC. + b. Uses established TSOP. + c. Ensures minimum equipment is taken on raid. d. Specifies correct ammunition for desired effect on target. e. Identifies pickup zone (PZ) and landing zone (LZ) locations. f. Coordinates with higher HQ for security element. g. Coordinates with higher HQ for attack helicopter support. h. Requests intelligence update from higher HQ. <p>* 2. The BC/XO does the following:</p> <ul style="list-style-type: none"> a. Coordinates with S3 air. _+ b. Conducts an air mission briefing (AMB) with air mission commander. c. Designates raid personnel. d. Inspects raid personnel. e. Conducts troop safety briefing. <p>3. The battery prepares to conduct air assault artillery raid to include the following:</p> <ul style="list-style-type: none"> a. Raid participants conduct a rehearsal. b. Firing data are pre-computed and distributed. + c. PZ and security are established. <p>NOTE: PZ is a minimum of 500 meters from the battery area.</p> <ul style="list-style-type: none"> d. Howitzers and personnel are moved to PZ at appropriate time. e. Equipment is rigged and inspected. + f. Prearranged signals or code words for extraction are distributed. <p>4. Battery executes air assault artillery raid to include the following: +</p> <ul style="list-style-type: none"> a. Advance party and security elements secure the LZ. b. Advance party establishes communications with aircraft and observers. c. Loads are delivered to the correct LZ. d. Firing capability is established. e. Weapons are prepared for sling load extraction. f. Lift helicopters are recalled to LZ by BC/XO. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
g. Howitzers and personnel are extracted from LZ. h. Safety procedures are strictly adhered to.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	071-326-5626	PREPARE AN ORAL OPERATION ORDER
	071-332-5000	Prepare an Operation Overlay
STP 21-I-MQS	04-3302.01-0003	Conduct a Reconnaissance
	04-3306.01-0008	Analyze Terrain
STP 6-13B1-SM	061-266-1101	Prepare a Position to Receive/Emplace a Howitzer (Advance Party)
STP 6-13B24-SM-TG	061-266-3301	Direct the Preparation of a Howitzer for Firing
	061-266-4000	Set-up and Recover the M2 or M2A2 Aiming Circle

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY HEADQUARTERS
 FIRE DIRECTION CENTER
 HOWITZER SECTION

TASK: CONDUCT AN ARTILLERY RAID (06-2-W107)
 (FM 6-40) (FM 6-50)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is conducting combat operations. Tactical or range requirements dictate moving the firing elements to a designated location for target engagement. The Battery Commander or his designated representative has been briefed by the controlling headquarters on the mission. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The commander identifies the firing elements to conduct the raid. The battery commander or his representative plans the operation, to carry out the higher HQ's commander's intent.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. BC/platoon leader briefs the firing element selected for the mission, considering the following: +</p> <ul style="list-style-type: none"> a. Purpose of mission. b. Command, Control and Communications c. Enemy/friendly situation. d. Target grid. e. OP area grid/individual firing point grids. f. Rally point grid. g. Route of march/order of march/movement formation (strip maps if possible). h. Start point, Check point, Passage point, Release points times and locations. i. Abort criteria. j. Link up grid and procedures (passage of lines). k. Force protection (unit providing support/escort). l. Survey plan. m. Obstacle plan. n. Follow-on mission. <p>* 2. Firing sections ensure the proper type and amount of ammunition is loaded. +</p> <p>3. The firing section chief ensures: +</p> <ul style="list-style-type: none"> a. The Paladin chief 's AFCS remains on and performs zero velocity updates as needed. This step is required only if survey is not required or tasked to provide an SCP at the firing area. The howitzer must carry its own location forward. This step is not needed if the GPS navigation system is working. b. The M270 chief ensures his SRP remains on by performing SRP realignment as needed. This step is required only if survey is not required or tasked to provide an SCP at the firing area. The launcher must carry his own location forward. <p>4. The commander or platoon leader escorts the firing section(s) to the designated firing area.</p> <p>5. The firing element(s) fire the assigned mission(s) IAW the type of fire control established.</p>		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
No STP and No MOS	061-266-4000	Set-up and Recover the M2 or M2A2 Aiming Circle
STP 6-13B1-SM	061-266-1105	Emplace and Recover Close-In Aiming Points
	061-266-1508	Prepare Ammunition for Firing
STP 6-13B24-SM-TG	061-266-1806	Lay and Measure a Howitzer for Quadrant with the Range Quadrant. (Except M119)
	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-266-2001	Align Close in Aiming Points Using the M100-Series Panoramic Telescope
	061-266-2002	Lay a Howitzer for Initial Direction of Fire by Reciprocal Lay by Using the Panoramic Telescope
	061-266-2003	Lay a Howitzer for Initial Direction of Fire Without an Aiming Circle by Using the Panoramic Telescope
	061-266-2004	Lay a Howitzer for Initial Direction of Fire by Using the Panoramic Telescope
	061-266-2006	Lay a Howitzer for Deflection Using the Panoramic Telescope
	061-266-2231	Refer the Piece
	061-266-2238	Establish a Distant Aiming Point (DAP)
	061-266-3301	Direct the Preparation of a Howitzer for Firing
	061-266-3305	Determine Site and Range to Crest
	061-266-3315	Determine that Howitzer Data is Safe to Fire.
	061-266-3318	Lay for Quadrant with the Gunner's Quadrant
	061-266-3319	Measure the Quadrant with the Gunner's Quadrant
	061-266-4008	Determine and Report the Azimuth of the Line of Fire
061-266-4020	Determine and Report the Correct Deflection	
061-268-3430	Perform Prefire Checks (M102)	
061-270-3430	Perform Prefire Checks (M109A2-A5)	
061-271-3430	Perform Prefire Checks (M198)	
061-281-2005	Lay and Measure a Howitzer for Quadrant with the Range Quadrant (M119)	
061-281-2006	Fire a Prepared Round (M119)	
061-281-3430	Perform Prefire Checks (M119)	
061-307-3430	Perform Prefire Checks (M109A6)	
061-320-5307	Establish Survey Control Using the Guy Laying Positioning System (GLPS)	
STP 6-13C14-SM-TG	113-610-2044	Navigate Using the AN/ PSN-11
	061-275-8004	Operate SINCGARS ICOM w/VIC-1

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)
	061-300-5017	Process Schedule of Fires (AFATDS Units)
	061-300-5021	Set Mission Critical List (AFATDS Units)
	061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)
STP 6-13D14-SM-TG	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-300-5002	Establish TAFCS Communications Configurations (AFATDS Units)
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)
	061-300-5017	Process Schedule of Fires (AFATDS Units)
	061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)
STP 6-13E13-SM-TG	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)
	061-300-5021	Set Mission Critical List (AFATDS Units)
	061-300-5028	Enter Meteorological Guidance in the TAFCS (AFATDS UNITS)
STP 6-13F14-SM-TG	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)
	061-300-5017	Process Schedule of Fires (AFATDS Units)
	061-300-5021	Set Mission Critical List (AFATDS Units)
	061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)
STP 6-13F14-SM-TG(VER11)	113-610-2044	Navigate Using the AN/ PSN-11
	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)
	061-300-5017	Process Schedule of Fires (AFATDS Units)
	061-300-5021	Set Mission Critical List (AFATDS Units)
	061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)
STP 6-13M14-SM-TG	113-610-2044	Navigate Using the AN/ PSN-11
	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-310-2001	Perform SRP/PDS Operations
	061-310-2021	Perform a Fire Mission
	061-310-2022	Edit/Input FCS Data
	061-310-3011	Select a Launcher Firing Position
	061-310-3024	Direct a Fire Mission
	061-310-8004	Operate the M993
	061-310-8007	Update Weapon Files
	061-310-8021	Operate the M993 During a Fire Mission
	061-310-8025	Supervise the Firing Capability of a MLRS Platoon
STP 6-13P14-SM-TG	113-610-2044	Navigate Using the AN/ PSN-11
	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-287-1973	Process MLRS Fire Mission (s)
	061-287-5013	Verify Fire Mission(s) / Fire Plan(s)
	061-287-5019	Manage MLRS Fire Mission(s)
	061-287-5021	Control the Conduct of MLRS Fire Mission(s)
	061-288-5104	Process MLRS Fire Mission (s) (Version 11)
	061-288-5203	Verify Fire Mission(s)/ Fire Plan(s) (Version 11)
	061-288-5304	Control the Conduct of MLRS Fire Mission(s)(Version 11)
	061-288-5402	Manage MLRS Fire Mission (s) (Version 11)
STP 6-82C14-SM-TG	113-610-2044	Navigate Using the AN/ PSN-11

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY HEADQUARTERS
 FIRING PLATOON HEADQUARTERS
 FIRING BATTERY HEADQUARTERS
 FIRING BATTERY HQ
 2 FIRING PLATOON HQ
 FIRING BTRY HQ

TASK: CONDUCT EMERGENCY MISSIONS (06-3-C002)
 (FM 6-50) (FM 6-70) (ST 6-50-60)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery/platoon is en route to a new position area and has received a call for fire. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The battery/platoon selects and occupies a firing position and fires the mission IAW unit TSOP and FM 6-50.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. XO/platoon leader directs the occupation and meets the time standards set below: +</p> <p>M102/M119A1-11 minutes.</p> <p>M198-12 minutes.</p> <p>M109-11 minutes.</p> <p>Paladin-75 seconds.</p> <p>a. Selects a position area that facilitates timely completion of the mission. b. Notifies all elements in the column IAW TSOP. c. Selects most expeditious method of lay for the mission and lays the howitzers. (NON PALADIN UNITS ONLY). d. Notifies the FDC as soon as one howitzer is laid and uses first howitzer laid as the adjusting piece. (NONPALADIN UNITS ONLY).</p> <p>2. The FDC/POC does the following: a. Verifies tactical data. b. Determines azimuth of fire. + c. Computes the firing data for the fire mission. + d. Transmits message to observer.</p> <p>* 3. The howitzer section chief does the following: + a. The COS acknowledges receipt of the fire mission.. b. Finds suitable firing location (verifies location if not GPS aided). c. Gunner verifies direction.(If required by SOP).. d. COS presses ARRIVED. e. COS and Gunner verifies that mission is clear of crest when the tube is at the lay deflection sent for the fire mission. f. COS presses LOAD and executes fire mission. g. COS ensures proper crew drill is performed. h. COS and Gunner ensures correct firing data is set on AFCS.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
4. The elements not required for fire mission establish position security.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B1-SM	061-268-1214	Boresight the Direct Fire Telescope (M102)
	061-268-1507	Load and Fire a Prepared Round (M102)
	061-270-1507	Load and Fire a Prepare Round (M109A2-A5)
	061-271-1507	Load and Fire a Prepared Round (M198)
	061-281-1543	Load a Prepared Round (M119)
STP 6-13B24-SM-TG	061-266-2002	Lay a Howitzer for Initial Direction of Fire by Reciprocal Lay by Using the Panoramic Telescope
	061-266-2004	Lay a Howitzer for Initial Direction of Fire by Using the Panoramic Telescope
	061-266-2006	Lay a Howitzer for Deflection Using the Panoramic Telescope
	061-266-2237	Supervise the Preparation of Ammunition for Firing
	061-266-3305	Determine Site and Range to Crest
	061-266-3315	Determine that Howitzer Data is Safe to Fire.
	061-266-4006	Orient the M2 or M2A2 Aiming Circle and Lay the Battery or Platoon
	061-266-4007	Lay the Battery or Platoon by Using Alternate Methods of Lay
	061-281-2006	Fire a Prepared Round (M119)
	061-307-3555	Prepare the M109A6 for Firing Using the Automatic Fire Control System (AFCS)
	061-307-3560	Conduct Indirect Fire Missions Using the Automatic Fire Control System (M109A6)

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY HEADQUARTERS
 2 FIRING PLATOON HQ
 FIRING PLATOON HEADQUARTERS
 FIRING BATTERY HEADQUARTERS
 FIRING BATTERY HQ
 FIRING BTRY HQ

TASK: PERFORM HASTY SURVEY (06-3-C011)
 (FM 6-50)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery/platoon is conducting an occupation of position. Survey control is not available; registration cannot be fired. The XO/platoon leader directs survey control be established by using hasty survey techniques. Visibility permits observation of celestial bodies. A master simultaneous observation station and three distant points identifiable on a map are available, or the coordinates of a point and the direction to an azimuth mark are known. The firing battery/platoon HQ has operational hasty survey and communications equipment, and 1:50,000-scale maps of the area are available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The XO/platoon leader determines the coordinates of the orienting station to an accuracy of 50 meters easting and 50 meters northing, height to the nearest one half contour interval, and azimuth of the orienting line to an accuracy of 2.0 mils or 0.5 mil per station if traversing with the aiming circle. Units equipped with GLPS (Gun Laying Positioning System) will not be required to perform this task as long as the GLPS is operational and the required number of satellites can be obtained.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The XO/platoon leader determines coordinates of the orienting station using one of the following: + a. Graphic resection procedures. b. Graphic traverse procedures. c. Global Positioning System (GPS). * 2. The XO/platoon leader determines azimuth of the orienting line by using one of the following: + a. Simultaneous observation. b. Polaris-II method. c. Polaris-Kochab method. d. Directional traverse. e. Hasty Astro. * 3. The XO/platoon leader determines height of the orienting station. +		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	071-329-1000	Identify Topographic Symbols on a Military Map
	071-329-1001	Identify Terrain Features on a Map
	071-329-1002	Determine the Grid Coordinates of a Point on a Military Map
STP 21-24-SMCT	071-329-1004	Determine the Elevation of a Point on the Ground Using a Map
	071-329-1009	Convert Azimuths
STP 6-13B24-SM-TG	061-266-4000	Set-up and Recover the M2 or M2A2 Aiming Circle
	061-266-4002	Establish the Azimuth of the Orienting Line (OL) by Using the Polaris-Kochab Methods
	061-266-4003	Establish the Azimuth of the Orienting Line (OL) by Using Directional Traverse
	061-266-4004	Determine Location by Graphic Resection by Using an M2 or M2A2 Aiming Circle
	061-266-4005	Perform Simultaneous Observation
	061-266-4010	Transfer the Orienting Station (ORSTA) and the End of the Orienting Line (EOL) by Using Graphic Traverse

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: HOWITZER SECTION
 2 FIRING PLATOON HQ
 6 HOWITZER SECTIONS

TASK: ESTABLISH FIRING CAPABILITY AT THE FIRING POSITION (PALADIN UNITS) (06-3-G004)
 (FM 6-70) (ST 6-50-60)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery/platoon is conducting combat operations. The platoon has completed a tactical road march and has arrived at the firing point. The howitzer crews have occupied the firing point given by the senior paladin chief within the position area. The Gunnery sergeant has designated a POC location. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The battery/platoon occupies position area and is ready to deliver fires within 3 minutes.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The platoon leader: The platoon leader is the officer in charge of firing and is responsible for the following:</p> <ul style="list-style-type: none"> a. Safety of the firing element. b. Ensures AFCS database has been input correctly. c. Checks the survey data at SCP's. d. Ensures verification of the howitzers location and direction per TSOP. <p>2. Fire Direction Officer: In addition to those listed in FM6-50, the FDO has the following responsibilities in a Paladin unit: Verifies POC and gun databases by conducting a verification mission (dry fire or AMC) after initialization, or when either the AFCS and LCU is powered up, or when a significant change occurs to the LCU/ howitzer's database (MET, MVV, registration corrections). NOTE: Location is not a significant change to a howitzer database.</p> <p>3. Gunnery Sergeant : The Gunnery Sergeant's responsibilities are as follows:</p> <ul style="list-style-type: none"> a. Conducts an in-depth reconnaissance, selection, occupation and defense of a platoon firing position. b. Verifies the position area location and transmits the location to the POC. + c. Performs hasty survey as required. d. Initiates the development of the platoon defense plan. e. Assists in the sustainment of 24-hour operations. f. Computes executive officer's(XO's) min QE for the lowest preferred charge the unit expects to fire. + <p>4. Platoon Sergeant: The Firing Battery Platoon Sergeant (PSG) is the primary enlisted assistant to the platoon leader and must be prepared to assume all of the platoon leader's duties. His responsibilities include the following:</p> <ul style="list-style-type: none"> a. Supervise the firing platoon, and maintain firing capability. + b. Supervise the occupation of the position. c. Supervise the overall maintenance of the firing platoon. d. Continue to developed and execute the firing platoon defense plan(Chapter3 FM.6-50.) e. Provide the 1SG with the firing platoon defense plan for integration into the overall battery defense scheme. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>f. Ensure that each chief of section knows the route to both alternate and supplementary positions.</p> <p>g. Conduct independent secondary checks of all howitzer position locations.</p> <p>h. Verify Howitzer calibration and ensure muzzle velocity (MV) readings are provided to the POC.</p> <p>i. Verify the completion of DA Form 2408-4 (Weapon Record Data).</p> <p>j. Ensure ammunition is properly handled and protected..</p> <p>k. Ensure safety aids are used and safety procedures are followed.</p> <p>l. Determine platoon requirements and coordinate with the platoon leader and the 1SG for all logistical activities for the platoon.</p> <p>5. Howitzer Section Chief: The Howitzer Section Chief is responsible for all actions within his section. He performs the following:</p> <p>a. Verifying the howitzer location/direction using prescribed methods. +</p> <p>b. The accuracy of database information. +</p> <p>c. Verifying firing limits.</p> <p>d. Visually verifying adjacent piece locations, and target reference points.</p> <p>e. Initiating and maintaining the section (RANGE CARDS).</p> <p>6. POC: The Platoon Operation Center, is responsible to conduct a verification mission every time there is a significant change in the database, MVVs, MET, and registration data. The POC is responsible for verifying that targets do not violate fire support coordination measures and that the targets plot within the prescribed target area. It is imperative that the FDO or chief computer verifies the plot of the target and the target location that is input into LCU.</p> <p>a. Ensure voice and digital communications with BN FDC and howitzers have been established. +</p> <p>b. Receive piece status (HOW;UPDATE) from howitzers and verify center sector.</p> <p>c. Verify howitzer location plots inside the firing area by plotting on howitzer tracking chart. +</p> <p>d. Verify Database. If database information changes occur, the POC. will direct a verification mission (i.e.check/change MVVs, Registrations, Ammunition, andMET). At this time,the firing unit is ready to fire. +</p> <p>e. Verify and announce XO's min QE to the guns. +</p> <p>f. Ensure fire support measures are posted.</p> <p>7. If your AFCS becomes degraded refer to TM 9-2350-314-10 for paladin degraded operations.</p>		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B24-SM-TG	061-307-3430	Perform Prefire Checks (M109A6)

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-307-3555	Prepare the M109A6 for Firing Using the Automatic Fire Control System (AFCS)
	061-307-3557	Initialize the Automatic Fire Control System (M109A6)
	061-307-3559	Operate the M109A6 Degraded Operations
	061-307-3560	Conduct Indirect Fire Missions Using the Automatic Fire Control System (M109A6)
	061-307-4557	Verify Initialization Data (M109A6)

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: FIRE DIRECTION CENTER

TASK: DETERMINE FIRING DATA (06-4-C002)
(FM 6-40)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is conducting combat operations. The FDC computer systems are operational. Fire order standards have been received from higher HQ. A fire mission has been received. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The FDC responds to calls for fires, computes and transmits firing data to the howitzers IAW commander's guidance, TSOP and applicable FM.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>1. The FDC determines/updates registration data as follows: +</p> <ul style="list-style-type: none"> a. Transmits MTO to FO of impending registration. b. Enters and reviews registration data. c. Transmits data to gun. d. Coordinates between FO and gun. e. At conclusion of impact phase, ensures FO sends refinement data if applicable then records as registration point, time repeat (if applicable). f. Transmits fuze time data to gun (if applicable). g. Reviews subsequent time adjustments and enters (if applicable). h. Ensures the FO sends time refinement if applicable, then records as time EOM. i. Updates backup system. j. Sends registration data to higher HQ (if applicable). <p>2. A radar HB/MPI registration is conducted by voice with a Firefinder. FDC does the following: +</p> <ul style="list-style-type: none"> a. Selects an orienting point. Determines height of burst (HOB), ammunition lots, charge, piece to fire, and radar section to observe the registration. b. Transmits MTO to radar. c. Enters and reviews registration data. d. Continues registration until desired usable rounds are obtained. e. Sends EOM and updates backup system. f. Sends registration data to higher HQ (if applicable). <p>NOTE: AN/TPQ-36/37 (Firefinder) MTO must include TGT NO, TGT GRID/ALT, TOF, MAX ORD and FU GRID/ALT, angle of fall, quadrant elevation.</p> <p>3. A registration has been conducted. Meteorological information was valid. Registration corrections must be verified for validity. +</p> <p>4. After the registration is completed and survey section has surveyed the location of the orienting station (ORSTA), FDC does the following: +</p> <ul style="list-style-type: none"> a. Enters ORSTA location and/or azimuth of lay and determines new piece locations. b. Updates backup systems. <p>5. A fire mission has been received. FDC does the following: +</p> <ul style="list-style-type: none"> a. Reviews Call for Fire (CFF). b. Checks situation map. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> c. Checks for intervening crests. d. Enters CFF. e. Verifies firing data with backup system. f. Transmits data to guns. g. Sends MTO. h. Sends EOM to the guns when EOM is sent from observer. i. Computes re plot data (if applicable). <p>6. The FDC determines firing data for the following adjust fire missions: +</p> <ul style="list-style-type: none"> a. Low angle adjust with FO. b. Low angle adjust with laser. c. Observed fire with radar. d. Low angle adjust with AFSSO. e. Simultaneous missions. f. Emergency fire missions. The battery has been assigned a fire mission and all automated computational means are inoperative. g. Illumination. h. Coordinated Illumination. i. Quick Smoke. j. High angle adjust with FO. k. High angle adjust with laser. l. FASCAM (if applicable). <p>7. The FDC determines firing data for the following Fire For Effect fire missions: +</p> <ul style="list-style-type: none"> a. Immediate Smoke. b. Immediate Suppression. c. Large Irregular Shaped Target. d. Time On Target. e. Fire For Effect When Ready. f. Fire For Effect At My Command. g. Mass Mission. h. Copperhead Target of Opportunity (if applicable). i. Copperhead Priority (if applicable). j. Priority Target. k. Final Protective Fire. l. Schedule of Fires/Fire Plans. m. Counterfire. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13E13-SM-TG	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-279-5005	Process an Area Fire Mission with the AFC/DS
	061-279-5006	Process Special Fire Missions with the AFC/DS

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-279-5007	Process a Priority Fire Mission using the AFC/DS
	061-279-5008	Process Registrations with the AFC/DS
	061-279-5012	Process a Fire Plan Target Using the AFC/DS(M109A6)
	061-279-5013	Process a Fire Plan Using the AFC/DS
	061-279-5014	Supervise Operation of the AFC/DS
	061-279-5015	Supervise Fire Mission Processing with AFC/DS
	061-279-5018	Execute Schedule of Fires
	061-280-5002	Compute Special Fire Missions in a Degraded Mode (Manual)
	061-280-5003	Supervise Preparation of Fire Mission Processing in Degraded Mode (Manual)
	061-280-5004	Supervise Fire Mission Processing in Degraded Mode (Manual)
	061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: HOWITZER SECTION

TASK: CONDUCT FIRE MISSIONS (06-4-C003)
 (FM 6-50) (TM 9-1015-234-10) (TM 9-1015-252-10)
 (TM 9-1025-211-10) (TM 9-2350-311-10) (ST 6-50-60)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: A warning order and fire commands have been issued by the FDC and received at the howitzer section. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The howitzer section prepares the howitzer for firing IAW fire commands, TSOP and applicable FM/TM.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The section chief verifies fire mission data is safe. + 2. The crew selects announced projectile and fuze. + 3. The crew selects announced or standard ammunition lot. + 4. The crew cuts and prepares announced charge. + 5. The crew assembles fuze and projectile. + 6. The crew places announced fuze setting on fuze (if applicable). + 7. The crew prepares projectile for loading and ramming. + * 8. The section chief checks ammunition lot, shell/fuze combination, and charge prior to loading. + 9. The crew lays howitzer for deflection and quadrant. + *10. The section chief verifies lay. + 11. The crew loads projectile when directed. + 12. The crew fires when directed IAW fire commands. + 13. The crew complies with any additional command (for example, cease fire). + 14. The crew makes required entries on record of missions fired (DA Form 4513R). + *15. The section chief ensures that the howitzer's ammunition status is updated IAW TSOP.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title	
STP 6-13B1-SM	061-266-1102	Record and Maintain Fire Mission Data on a DA Form 4513-R (Record of Missions Fired)	
	061-266-1508	Prepare Ammunition for Firing	
	061-266-1515	Unpackage and Inspect the M712 and/or M823 Projectile (155-MM HOWITZER)	
	061-266-1516	Prepare the M712 and/or M823 Projectile for Firing (155-MM HOWITZER)	
	061-266-1806	Lay and Measure a Howitzer for Quadrant with the Range Quadrant. (Except M119)	
	061-268-1217	Sight on a Target with the Direct Fire Telescope (M102)	
	061-268-1507	Load and Fire a Prepared Round (M102)	
	061-270-1217	Sight on a Target with the Direct Fire Telescope (M109A2-A5)	
	061-270-1507	Load and Fire a Prepare Round (M109A2-A5)	
	061-271-1217	Sight on a Target with the Direct Fire Telescope (M198)	
	061-271-1507	Load and Fire a Prepared Round (M198)	
	STP 6-13B24-SM-TG	061-281-1543	Load a Prepared Round (M119)
		061-266-2006	Lay a Howitzer for Deflection Using the Panoramic Telescope
		061-266-2235	Sight on a Target During Direct Fire with the Panoramic Telescope
061-266-2237		Supervise the Preparation of Ammunition for Firing	
061-266-3300		Monitor Section Operations Involving the M712 or M823 Projectile (155-mm howitzer).	
061-266-3301		Direct the Preparation of a Howitzer for Firing	
061-266-3315		Determine that Howitzer Data is Safe to Fire.	
061-266-3318		Lay for Quadrant with the Gunner's Quadrant	
061-266-3319		Measure the Quadrant with the Gunner's Quadrant	
061-266-3320		Issue Fire Orders for Direct Fire Mission	
061-266-3321		Take Immediate Action for Misfire (Semifixed Ammunition)	
061-266-3322		Take Immediate Action for Misfire (Seperate-Loading Ammunition)	
061-266-3501	Monitor Loading and Securing of Ammunition in Preparation for Transporting/Firing		
061-266-3705	Process a Fire Mission on the Gun Display (GDU)		
061-266-3706	Process Special Situations on the Gun Display Unit (GDU)		

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-266-4020	Determine and Report the Correct Deflection
	061-266-4024	Monitor Howitzer Sections During Firing
	061-281-2005	Lay and Measure a Howitzer for Quadrant with the Range Quadrant (M119)
	061-281-2006	Fire a Prepared Round (M119)
	061-281-2233	Sight on a Target During Direct Fire (M119)

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: HOWITZER SECTION

TASK: MANAGE AND SUBMIT HOWITZER SECTION REPORTS (06-4-C004)
 (FM 6-50) (FM 6-70) (ST 6-50-60)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The howitzer section is conducting fire missions and the section submits required reports. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The section chief maintains and submits reports as required by TSOP or tactical situation. Reports and records are submitted IAW applicable FMs and TMs of the related weapon.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The section chief records lay data on gunner's reference card. +		
* 2. The section chief prepares, maintains, and records fire command data as reported by FDC (Record of Missions Fired). +		
* 3. The section chief records rounds and charges fired on Weapon Record Data form. +		
* 4. The section chief updates ammo files. +		
* 5. The section chief reports the muzzle velocity to the FDC. +		
* 6. The section chief maintains a Daily Equipment Inspection/Maintenance Worksheet, records faults, and submits it to the maintenance section. +		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B1-SM	061-266-1102	Record and Maintain Fire Mission Data on a DA Form 4513-R (Record of Missions Fired)
STP 6-13B24-SM-TG	061-266-3323	Maintain DA Form 2408-4 (Weapon Record Data Card)
	061-266-4023	Verify Completion of DA Form 2408-4

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: HOWITZER SECTION

TASK: UNLOAD THE HOWITZER (06-4-C009)

(FM 6-70)

(TM 9-2350-311-10)

(FM 6-50)

(ST 6-50-60)

(TM 9-1015-234-10)

(TM 9-1025-211-10)

(TM 9-2350-314-10)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: A projectile has been rammed and not fired. The howitzer section has been directed to unload the howitzer. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The howitzer section performs unloading procedures for a hot or cold tube IAW the appropriate TM. All safety measures are strictly adhered to. The round is extracted, segregated from other ammunition, and disposed of properly.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>NOTE: A complete round, once loaded, should always be fired. However, if the round must be unloaded refer to misfire/check fire procedures in the weapons TM.</p> <ul style="list-style-type: none"> * 1. The XO/platoon leader commands UNLOAD. * 2. The section chief and crew perform the following for cold tube or within five minutes of loading for a hot tube : + <ul style="list-style-type: none"> a. Level the tube and assemble cleaning staff sections to the artillery unloading rammer. b. Remove the primer. c. Open the breech and remove the powder charge/cartridge case. d. Fill the powder chamber with waste rags. e. Close the breech. f. Insert the unloading rammer into the muzzle. Slide it in the tube until the rammer head encircles the fuse and is seated against the projectile. g. Apply pressure by pushing or, if necessary, by tapping the end of the rammer staff with a wooden block to loosen the projectile. h. When the projectile is loose, the section chief directs the crew to open the breech and remove the rags. i. Remove the projectile. * 3. The section chief ensures the unloaded projectile is separated from other ammunition and turned in to the ammunition section as soon as possible. + 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B1-SM	061-266-1510	Repackage the M712 and/or M823 Projectile (155-MM Howitzer)
	061-266-1511	Perform Extraction Procedures on the M712 and/or M823 Projectile (155-MM HOWITZER)
STP 6-13B24-SM-TG	061-266-3321	Take Immediate Action for Misfire (Semifixed Ammunition)
	061-266-3322	Take Immediate Action for Misfire (Seperate-Loading Ammunition)

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: HOWITZER SECTION

TASK: PREPARE HOWITZER FOR CONDUCT OF FIRE MISSIONS (NON-PALADIN) (06-4-C012)
(FM 6-50)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery/platoon has completed a tactical move. The advance party has prepared the new position area. Each gun guide has aligned his weapon along the azimuth of fire and has given the initial deflection to the gunner. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The section chief establishes and maintains operational capability IAW FM 6-50 and unit TSOP. The section chief maintains firing data and makes required entries on Record of Missions Fired as directed by the FDC.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The section chief give the command to " Prepare for Action"		
2. The crew emplaces spades or trails. +		
3. The crew lays howitzer. +		
* 4. The section chief verifies lay. +		
5. The crew emplaces primary aiming point. +		
* 6. The section chief verifies boresight of the howitzer. +		
* 7. The section chief and crew perform prefire checks. +		
* 8. The section chief ensures enough ammunition is prepared IAW TSOP.		
9. The section chief verifies sight and range to crest		
10. The crew establishes communication with FDC.		
*11. The section chief completes section chief's report, records standard fire commands, and reports "in order", ready to fire.		
12. The crew lays on priority target (if applicable).		
13. The crew improves howitzer position.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
No STP and No MOS	061-320-5301	Set Up the Gun Laying Positioning System (GLPS)
	061-320-5302	Recover the Gun Laying Positioning System (GLPS)
	061-320-5303	Orient the Gun Laying Positioning System (GLPS) with the PLGR
	061-320-5304	Orient the GLPS for Direction Using Know Position
	061-320-5305	Orient the GLPS for Direction Using Back Polar Plot Method
	061-320-5306	Lay the Battery or Platoon Using the Gun Laying Positioning System (GLPS)
	061-320-5307	Establish Survey Control Using the Guy Laying Positioning System (GLPS)
STP 6-13B1-SM	061-266-1102	Record and Maintain Fire Mission Data on a DA Form 4513-R (Record of Missions Fired)
	061-266-1105	Emplace and Recover Close-In Aiming Points
	061-266-1508	Prepare Ammunition for Firing
	061-266-2001	Align Close in Aiming Points Using the M100-Series Panoramic Telescope
STP 6-13B24-SM-TG	061-266-2002	Lay a Howitzer for Initial Direction of Fire by Reciprocal Lay by Using the Panoramic Telescope
	061-266-2003	Lay a Howitzer for Initial Direction of Fire Without an Aiming Circle by Using the Panoramic Telescope
	061-266-2004	Lay a Howitzer for Initial Direction of Fire by Using the Panoramic Telescope
	061-266-2005	Boresight the Panoramic Telescope by Using a Distant Aiming Point (DAP).
	061-266-2006	Lay a Howitzer for Deflection Using the Panoramic Telescope
	061-266-2231	Refer the Piece
	061-266-2237	Supervise the Preparation of Ammunition for Firing
	061-266-2238	Establish a Distant Aiming Point (DAP)
	061-266-2239	Check the Boresight of the Panoramic Telescope with the M139 or M140 Alignment Device.
	061-266-3301	Direct the Preparation of a Howitzer for Firing
	061-266-3305	Determine Site and Range to Crest
	061-266-3313	Prepare Range Card(s) for a Howitzer
	061-266-3315	Determine that Howitzer Data is Safe to Fire.
	061-266-3319	Measure the Quadrant with the Gunner's Quadrant
	061-266-3700	Mount and Maintain Gun Display Unit (GDU).
	061-266-3705	Process a Fire Mission on the Gun Display (GDU)
061-266-4006	Orient the M2 or M2A2 Aiming Circle and Lay the Battery or Platoon	
061-266-4007	Lay the Battery or Platoon by Using Alternate Methods of Lay	
061-268-3430	Perform Prefire Checks (M102)	

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-270-3430	Perform Prefire Checks (M109A2-A5)
	061-271-3430	Perform Prefire Checks (M198)
	061-281-3430	Perform Prefire Checks (M119)
	061-307-3430	Perform Prefire Checks (M109A6)
	061-307-3554	Perform Fire Control Alignment Tests (M109A6)
	061-307-3555	Prepare the M109A6 for Firing Using the Automatic Fire Control System (AFCS)
	061-307-3557	Initialize the Automatic Fire Control System (M109A6)
	061-307-3559	Operate the M109A6 Degraded Operations
	061-307-3562	Perform Automatic Fire Control System Confidence Tests (M109A6)
	061-307-4557	Verify Initialization Data (M109A6)

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: HOWITZER SECTION

TASK: CONDUCT DIRECT FIRE (06-4-C015)
 (FM 6-50) (FM 6-70) (ST 6-50-60)
 (TM 9-1015-234-10) (TM 9-1015-252-10)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The howitzer section is conducting combat operations. An enemy target is located within the direct fire sector of the section. The decision is made to engage the target. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The howitzer section engages the target and achieves a target hit.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The section chief identifies target and issues fire commands consisting of the following: + <ul style="list-style-type: none"> a. A warning order, for example, TARGET APC. b. General direction to the target, for example, LEFT FRONT. c. Range to the target, example, RANGE 500. d. Lead in mils, example, LEAD, LEFT 5. e. Announces shell fuse combination if other than standard. f. Method of fire, example, FIRE AT WILL. g. Announces subsequent commands. 2. The section personnel do the following: + <ul style="list-style-type: none"> a. Prepare the designated ammunition for firing. b. Load howitzer properly. c. Lay the howitzer on the target and track it, if needed. 3. Procedures for direct fire on the M109A6 Paladin Howitzer. + <ul style="list-style-type: none"> a. Warning order,for example,Target APC. b. Chief of section selects direct fire from set up and information screen. c. Chief selects range and inputs estimated range to the target. d. Chief selects up and down for estimated altitude of target. e. Chief selects useall key to display fire mission screen. f. Chief lay's howitzer for quadrant and announces set until howitzer is fired. * NOTE: For all other procedures for direct fire on the Paladin howitzer section refer to procedures for M109 A5 One man Two site.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B1-SM	061-268-1217	Sight on a Target with the Direct Fire Telescope (M102)
	061-270-1214	Boresight the Direct Fire Telescope (M109A2-A5)
	061-270-1217	Sight on a Target with the Direct Fire Telescope (M109A2-A5)
	061-271-1217	Sight on a Target with the Direct Fire Telescope (M198)
STP 6-13B24-SM-TG	061-266-2235	Sight on a Target During Direct Fire with the Panoramic Telescope
	061-266-3320	Issue Fire Orders for Direct Fire Mission
	061-266-4014	Prepare and Defend a Unit Against an Attack
	061-268-1507	Load and Fire a Prepared Round (M102)
	061-281-2233	Sight on a Target During Direct Fire (M119)
	061-307-3556	Perform Direct Fire Using the Automatic Fire Control System (M109A6)

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: SURVEY SECTION

TASK: ESTABLISH AZIMUTH BY SIMULTANEOUS OBSERVATION (06-4-C017)
 (FM 6-2) (FM 6-50)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The survey section has been directed to provide directional control by simultaneous observation. The location of the master station (a SCP with a line of known direction) and the time of observation have been designated by the survey officer or the chief surveyor. The survey section has a supplemental survey set, a T-2 or a T16 theodolite, and communications equipment. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The survey section plans and performs a simultaneous observation within 4th or 5th-order specifications as prescribed in FM 6-2.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The section chief plans simultaneous observation. + 2. The team performs simultaneous observation(s) to 4th or 5th-order specifications.		
* 3. The section chief checks all data and transmits data to flank stations. +		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-82C14-SM-TG	061-275-8003	Operate SINCGARS ICOM
	061-275-8014	Supervise the Operation of SINCGARS
	061-302-1026	Record Field Notes
	061-302-1047	Compute an Azimuth From a Simultaneous Observation
	061-302-1060	Measure Angles with a 0.2-MIL Theodolite
	061-302-1061	Measure Angles with a 0.002-MIL Theodolite
	061-302-5000	Perform an Astronomic Observation with a Theodolite
	061-302-5020	Compute a Hasty Astronomic Observation with the FED MSR

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: SURVEY SECTION

TASK: ASSUME DIRECTIONAL CONTROL (06-4-C018)
(FM 6-2)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The survey section has been directed to assume directional control. Time, equipment, and weather will not permit any other method to be used. Coordinates and height of a SCP have been provided by the survey officer or the chief surveyor. The section has a protractor and a 1:50,000 scale map of the area. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The survey section will determine the grid azimuth to the azimuth mark within 20 mils of the known azimuth.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The section chief briefs all personnel and identifies azimuth mark on the map. + 2. The team plots SCP on the map to nearest 10 meters. 3. The team determines grid azimuth to azimuth mark to the nearest 20 mils.		
* 4. The section chief checks all data. +		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	071-329-1002	Determine the Grid Coordinates of a Point on a Military Map
STP 6-82C14-SM-TG	061-302-1040	Compute Azimuth and Distance From Known Coordinates
	061-302-4301	Plan a Survey Operation
	071-510-0001	Determine Azimuth Using a Protractor

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: SURVEY SECTION

TASK: ESTABLISH AZIMUTH BY ASTRONOMIC OBSERVATION (06-4-C019)
(FM 6-2)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The survey section has been directed to establish directional control by astronomic observation. The station to be occupied has been designated by the survey officer or the chief surveyor. The survey section has a supplemental survey set and a T16 or a T-2 theodolite. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The survey section plans, performs, and computes an astronomic observation within 4th or 5th-order specifications as prescribed IAW FM 6-2. Those units equipped with a T-2 will perform to 4th order standards.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The section chief plans astronomic observation (selects altitude, artillery astronomic, or Polaris tabular method). +		
2. The team determines geographic coordinates of the point to be occupied to within +2.5 seconds.		
3. The team performs astronomic observation within 4th or 5th-order specifications. Those units equipped with T-2s will perform to 4th order specifications.		
4. The team computes astronomic observation and determines the grid azimuth to the azimuth mark.		
* 5. The section chief checks all data. +		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

“*” indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-82C14-SM-TG	061-302-1026	Record Field Notes
	061-302-1045	Compute an Azimuth From a Sun or Star Altitude Observation
	061-302-1046	Compute an Azimuth From a Polaris Tabular Observation
	061-302-1048	Compute Grid Convergence
	061-302-1060	Measure Angles with a 0.2-MIL Theodolite
	061-302-1061	Measure Angles with a 0.002-MIL Theodolite

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-302-1070	Compute Azimuth From an Artillery Astronomic Observation
	061-302-5000	Perform an Astronomic Observation with a Theodolite
	061-302-5006	Plan an Astronomic Observation
	061-302-5019	Compute a Star ID with the FED MSR
	061-302-5024	Check Survey Field Notes and Computations

OPFOR TASKS AND STANDARDS: NONE

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
No STP and No MOS	061-266-4000	Set-up and Recover the M2 or M2A2 Aiming Circle
STP 6-13B1-SM	061-266-1102	Record and Maintain Fire Mission Data on a DA Form 4513-R (Record of Missions Fired)
	061-266-1105	Emplace and Recover Close-In Aiming Points
	061-266-1508	Prepare Ammunition for Firing
	061-266-1806	Lay and Measure a Howitzer for Quadrant with the Range Quadrant. (Except M119)
STP 6-13B24-SM-TG	061-307-1601	Operate the Microclimate Conditioning System (M109A6)
	061-266-2001	Align Close in Aiming Points Using the M100-Series Panoramic Telescope
	061-266-2004	Lay a Howitzer for Initial Direction of Fire by Using the Panoramic Telescope
	061-266-2231	Refer the Piece
	061-266-2238	Establish a Distant Aiming Point (DAP)
	061-266-3301	Direct the Preparation of a Howitzer for Firing
	061-266-3305	Determine Site and Range to Crest
	061-266-3315	Determine that Howitzer Data is Safe to Fire.
	061-266-3323	Maintain DA Form 2408-4 (Weapon Record Data Card)
	061-266-4011	Prepare and Submit Weapons Location Data Card
	061-266-4020	Determine and Report the Correct Deflection
	061-266-4023	Verify Completion of DA Form 2408-4
	061-266-4024	Monitor Howitzer Sections During Firing
	061-307-3430	Perform Prefire Checks (M109A6)
	061-307-3529	Adjust the Elevation System (M109A6)
	061-307-3555	Prepare the M109A6 for Firing Using the Automatic Fire Control System (AFCS)
061-307-3557	Initialize the Automatic Fire Control System (M109A6)	
061-307-3560	Conduct Indirect Fire Missions Using the Automatic Fire Control System (M109A6)	
061-307-4557	Verify Initialization Data (M109A6)	

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: HOWITZER SECTION

TASK: PROCESS FIRE MISSIONS ON THE M109A6 PALADIN HOWITZER (06-4-G009)
(FM 6-70)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Given a M109A6 howitzer moving or emplaced at a firing point or firing area, an operational AFCS, digital communications with the POC, section equipment and personnel, and TM9-2350-314-10. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: If the mission is received while stationary and in a firing position, the howitzer section is ready to fire within 30 seconds (45seconds for high angle) after receipt of the fire mission. If the howitzer is moving, the howitzer is ready to fire within 75 seconds after receipt of the mission.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. The chief of section operates the AFCS and processes the fire mission.+ 2. The chief of section responds and issues the fire commands. + 3. The driver will raise the RPMs of the howitzer to 1,000 to1,200 RPMs and will record the fire mission on DA FORM 4513-R. + 4. The chief of section will activate servos and push LOAD KEY +. 5. The number 1 man prepares ammunition by lot and shell/fuze combination (sets time if time fuze is used). + 6. The gunner prepares announced propellant.+ 7. The chief of section checks setting if time fuze is used for proper time setting +. 8. The number 1 man will ram projectile(pushes manual control lever forward, holding lever for 4 seconds to allow full extension of rammer. + 9. The chief of section will verify charge before gunner loads it in the tube + . <ol style="list-style-type: none"> a. The gunner will place charge in the red ignitor pad facing the rear and announce "CLOSE" and lift the breech operating handle causing the breech to close. b. The gunner will ensure witness marks align and announce"WITNESS MARKS ALIGNED". 10. The chief of section will press the lay key and announce "Lay Light Is back Lit ". + <ol style="list-style-type: none"> a. The actual and Command Deflection and Quadrant must match within one mil of each other and no Warning Message may be present. b. The gunner will check all three settings and announce "Verified".(If it is a high angle fire mission, the command to prime will be done before the lay key). c. The gunner will announce "Check Firing" if a violation of the above steps occurs or if the data does not match.+ 11. Chief of section will command "Prime" and the Number 1 man will emplace the primer.+ 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
12. Chief of section will command "Hook up" and the Number 1 man will hook up the lanyard.+ NOTE: If the method of fire control is "At my command", the chief of section waits until the command is given to fire over the AFCS."		
13. Chief of section will command "Fire" and the number 1 man will fire.+		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B24-SM-TG	061-266-2237	Supervise the Preparation of Ammunition for Firing
	061-266-3322	Take Immediate Action for Misfire (Seperate-Loading Ammunition)
	061-266-3501	Monitor Loading and Securing of Ammunition in Preparation for Transporting/Firing
	061-307-3430	Perform Prefire Checks (M109A6)
	061-307-3557	Initialize the Automatic Fire Control System (M109A6)
	061-307-3560	Conduct Indirect Fire Missions Using the Automatic Fire Control System (M109A6)

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: SURVEY SECTION

TASK: UPDATE PADS BY USING ASSUMED DATA (06-4-V001)
(FM 6-2)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is planning to occupy a new position. Survey control is required, but no known survey control is available. The survey plan directs that positional control be assumed or obtained from global positioning system (GPS) and directional control be established with PADS. A 1:50,000 scale map of the area is available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The assumed coordinates must be determined to within 50 meters easting and northing, and height to the nearest one half contour interval when assumed. The coordinates will be more accurate when determined with GPS. The exact accuracy of the coordinates is determined by the number of satellites detected by the GPS.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The survey officer, chief survey or team chief does the following: + a. Selects location and marks the initialization point to be used. b. Moves survey section to the selected survey control point (SCP). c. Determines grid coordinates of the point to within 50 meters easting and 50 meters northing. d. Determines height of the point from map to the nearest one half contour interval. e. Provides assumed data to survey section chief(s). * 2. The survey officer/chief surveyor/team chief briefs all team members. + 3. The team initializes within 100 meters of the point selected. 4. The team performs initial update of PADS by using initialization (assumed) or GPS data. 5. The team performs initial update of PADS while still marked over the point and then establishes an azimuth for the conventional team. 6. The team converts assumed data to common control when directed or when assumed control differs from common control by two meters in height or 10 meters in radial error. * 7. The survey officer/chief surveyor/team chief checks data. +		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

“*” indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	071-329-1002	Determine the Grid Coordinates of a Point on a Military Map
	071-329-1005	DETERMINE A LOCATION ON THE GROUND BY TERRAIN ASSOCIATION
STP 21-24-SMCT	071-329-1015	Locate an Unknown Point on a Map and on the Ground by Resection
STP 6-13M14-SM-TG	113-610-2044	Navigate Using the AN/ PSN-11
STP 6-82C14-SM-TG	061-302-1026	Record Field Notes
	061-302-1060	Measure Angles with a 0.2-MIL Theodolite
	061-302-1061	Measure Angles with a 0.002-MIL Theodolite
	061-302-2102	Evaluate Survey Information
	061-302-4301	Plan a Survey Operation
	061-302-5002	Update the Position and Azimuth Determining System (PADS)
	061-302-5003	Convert to Common Control
	061-302-5008	Plan a Position and Azimuth Determining System (PADS) Survey
	071-329-1004	Determine the Elevation of a Point on the Ground Using a Map

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: SURVEY SECTION

TASK: ESTABLISH SURVEY CONTROL BY THREE POINT RESECTION (06-4-V002)
(FM 6-2)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The survey section has been directed to establish a SCP by three point resection and be checked by a second three point resection. The supporting survey element has provided coordinates and height of four distant inaccessible SCPs that are identifiable. The survey section has a survey set supplementary equipment, a T-2 or a T16 theodolite, GPS, and a 1:50,000 scale map of the area. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The survey section/PADS party plans, performs, and computes a three point resection within 4th or 5th-order specifications as prescribed IAW FM 6-2. The units with T-2s will perform to 4th order standards.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The chief surveyor or team chief plans the three point resection. +		
* 2. The chief surveyor or team chief selects and marks the survey station. +		
3. The team performs field work as follows: a. Sets up theodolite and measures horizontal and vertical angles. b. Records all field notes in a field notebook.		
4. The team computes the three point resections.		
5. The team computes the comparative accuracy ratio between resection schemes and verifies that it meets the standards in FM 6-2 for the order of survey they were performing.		
* 6. The chief surveyor or team chief checks data and provides information to the controlling headquarters. +		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-82C14-SM-TG	061-302-1015	Compute Comparative Accuracy of Two Distances
	061-302-1026	Record Field Notes
	061-302-1044	Compute a Three-Point Resection
	061-302-1060	Measure Angles with a 0.2-MIL Theodolite

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-302-1061	Measure Angles with a 0.002-MIL Theodolite
	061-302-2102	Evaluate Survey Information
	061-302-3203	Plan a Three-Point Resection
	061-302-5024	Check Survey Field Notes and Computations
	061-302-8001	Transmit Information Messages

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: SURVEY SECTION

TASK: USE PADS TO EXTEND SURVEY CONTROL (06-4-V003)
(FM 6-2)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is conducting combat operations and survey operations are being performed. The survey plan has been issued and directs that survey control be extended by use of PADS. The supporting survey element has provided a SCP for cannon within 25 kilometers of the battery and within 30 kilometers of MLRS firing platoons. The survey section is equipped with PADS, a survey set supplementary equipment, T-2 or a T16 theodolite, GPS, and 1:50,000-scale maps of the area. The PADS has been initialized. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The survey section/PADS party extends survey control to all designated elements IAW the survey plan using 10 minute zero velocity corrections. The survey is closed on the starting point or a second known point of equal or higher accuracy, and PADS accepts the closure update data.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The chief surveyor or team chief accurately plots known SCPs on the map. + * 2. The chief surveyor or team chief locates and identifies SCPs on the ground. + 3. The team performs initial update of PADS. + 4. The team establishes survey control IAW the survey plan and does the following: a. Performs 10 minute zero velocity corrections. b. Performs position and azimuth marks with plumb bob. c. Performs position and azimuth marks without plumb bob if necessary. 5. The team closes survey on starting point or second known point of equal or higher accuracy using 10 minute zero velocity corrections. + NOTE: If PADS accepts closure update data, the survey is considered a closed survey. 6. The team recalls and records adjusted data. NOTE: The PADS should not be shut down until the mission has been completed. 7. The team performs shutdown procedures on PADS.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-82C14-SM-TG	061-302-1013	Measure Distance with a 30-Meter Steel Tape

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-302-1014	Repair a 30-Meter Steel Tape
	061-302-1015	Compute Comparative Accuracy of Two Distances
	061-302-1026	Record Field Notes
	061-302-1040	Compute Azimuth and Distance From Known Coordinates
	061-302-1041	Compute a Traverse and Closing Data
	061-302-1042	Compute an Intersection
	061-302-1043	Compute a Chain of Triangles
	061-302-1060	Measure Angles with a 0.2-MIL Theodolite
	061-302-1061	Measure Angles with a 0.002-MIL Theodolite
	061-302-1063	Mark Survey Positions with the Position and Azimuth Determining System (PADS)
	061-302-1065	Compute Conversion and Transformation of Coordinates and Azimuth
	061-302-1069	Prepare the Backup Computer System (BUCS) for Field Artillery Survey Observation
	061-302-1070	Compute Azimuth From an Artillery Astronomic Observation
	061-302-1132	Compute a Trig Traverse to Determine a Distance
	061-302-1202	Measure Distance with the Survey Equipment, Distance Measuring, Electronic-Medium Range (SEDME-MR)
	061-302-2102	Evaluate Survey Information
	061-302-2165	Install the Position and Azimuth Determining System (PADS) in a Vehicle
	061-302-2179	Perform Operator Preventive Maintenance on the Position and Azimuth Determining System (PADS)
	061-302-3201	Plan a Traverse Scheme
	061-302-3202	Plan a Triangulation or Intersection Scheme
	061-302-3203	Plan a Three-Point Resection
	061-302-3217	Determine Datum, Spheroid or Ellipsoid, and Grid System for Area of Operation
	061-302-3307	Plan a Trig Traverse
	061-302-4301	Plan a Survey Operation
	061-302-4301	Plan a Survey Operation
	061-302-5000	Perform an Astronomic Observation with a Theodolite
	061-302-5002	Update the Position and Azimuth Determining System (PADS)
	061-302-5003	Convert to Common Control
	061-302-5004	Perform Initialization of the Position and Azimuth Determining System (PADS)
	061-302-5005	Transfer the Position and Azimuth Determining System (PADS) to a Helicopter
	061-302-5007	Locate Traverse Error
	061-302-5008	Plan a Position and Azimuth Determining System (PADS) Survey
	061-302-5009	Check Conversion and Transformation Computations
	061-302-5024	Check Survey Field Notes and Computations

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-302-5050	Measure an Azimuth with the Azimuth GYRO
	061-302-5051	Perform Operator Checks and Services on the Azimuth GYRO

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: SURVEY SECTION

TASK: PLAN AND EXECUTE SURVEY OPERATIONS (06-4-V005)
(FM 6-2)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is conducting combat operations and requires survey control. The commander has issued guidance on survey requirements and priorities. The survey section is equipped with the position and azimuth determining system (PADS) and survey set supplementary equipment. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The survey officer, chief surveyor or team chief develops a survey plan consistent with the commander's guidance. The survey plan provides for establishing of survey control when and where it is needed.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The survey officer, chief surveyor or team chief receives the mission, gathers information, conducts a map reconnaissance, and formulates a survey plan that accomplishes the mission and considers the following: + <ul style="list-style-type: none"> a. Planning factors such as mission, tactical situation, survey control available, priority of work, number of installations and their requirements, terrain trafficability, routes available, weather, status of equipment, mode of travel for PADS (air or ground), and time available. b. Planning essentials that provide required control, provide for checks, is simple, timely, flexible, and adaptable, and answers who, what, where, when, why, and how. * 2. The survey officer, chief surveyor or team chief briefs commander and/or S3 on the survey plan. + <ul style="list-style-type: none"> a. The survey officer, chief surveyor or team chief briefs survey team and issues survey order detailing priorities and accuracies for primary, alternate, and supplementary positions for firing units and target-locating elements, time to finish, PADS and conventional requirements, logistics and communications, alternate plan, and future requirements. b. The survey officer, chief surveyor or team chief coordinates survey operations with commanders, staff, and survey elements of higher and adjacent HQ. * 3. The survey officer, chief surveyor or team chief supervises and coordinates field operations, resupply, and servicing of survey teams. + * 4. The survey officer, chief surveyor or team chief updates survey order as required and keeps survey team informed. + 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-82C14-SM-TG	061-302-3201	Plan a Traverse Scheme
	061-302-3202	Plan a Triangulation or Intersection Scheme
	061-302-3203	Plan a Three-Point Resection
	061-302-3307	Plan a Trig Traverse
	061-302-4301	Plan a Survey Operation
	061-302-5008	Plan a Position and Azimuth Determining System (PADS) Survey
	061-302-5027	Process a Survey Order with the FED MSR
	061-302-5028	Enter a New Survey Control Point in the FED MSR
	061-302-5029	Update the Survey Control Point File in the FED MSR
	061-302-5030	Process a Survey Search Request in the FED MSR

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: SURVEY SECTION

TASK: ESTABLISH A DECLINATION STATION (06-4-V006)
 (FM 6-2) (FM 21-26) (STP 21-1-SMCT)
 (STP 21-24-SMCT) (STP 6-82C14-SM-TG)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The DivArty is planning to occupy new positions. Survey plans call for establishment of a declination station. A survey control point (SCP) that is suitable for a declination station is within 4,000 meters of the center of the area.

Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Establish a declination station within the criteria stated in the mission order and FM 6-2.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. Chief surveyor selects the location of the declination station. + a. Selects a location convenient to using units. b. Selects a location away from magnetic attractions. 2. Survey section performs field work. a. Selects at least one (preferably two) azimuth mark(s) located between 300 and 1,000 meters from the declination station. b. Determines the grid azimuth to the azimuth mark(s) by using either astronomic observation; PADS; survey instrument, azimuth gyro, lightweight (SIAGL); or directional traverse. c. Measures the vertical angles to the azimuth mark(s). d. Records field notes. * 3. Chief surveyor checks data for compliance with fourth-order specifications. + a. Checks traverse field notes and computations. b. Checks astronomic observation field notes and computations.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B24-SM-TG	061-266-4013	Declinate the M2 or M2A2 Aiming Circle
STP 6-13D14-SM-TG	071-510-0001	Determine Azimuth Using a Protractor
STP 6-13F14-SM-TG	071-510-0001	Determine Azimuth Using a Protractor
STP 6-13F14-SM-TG(VER11)	071-510-0001	Determine Azimuth Using a Protractor

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13P14-SM-TG	071-510-0001	Determine Azimuth Using a Protractor
STP 6-13R14-SM-TG	061-266-4013	Declinate the M2 or M2A2 Aiming Circle
	071-329-1002	Determine the Grid Coordinates of a Point on a Military Map
STP 6-82C14-SM-TG	061-302-2181	Establish a Declination Station
	071-074-0002	Determine a Grid Azimuth Using an M2 Compass
	071-510-0001	Determine Azimuth Using a Protractor

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: SURVEY SECTION

TASK: EXTEND AZIMUTH BY DIRECTIONAL TRAVERSE (06-4-V007)
(FM 6-2)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The survey section has been directed to extend directional control by directional traverse. The supporting survey element has provided a SCP within 2,000 meters of the battery position. The survey section has a supplemental survey set, a T16 or a T-2 theodolite, and 1:50,000-scale maps of the area. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The survey section extends directional control to all designated units IAW the survey plan and within 4th or 5th-order specifications as specified in FM 6-2. Those units with 4th order capability will use 4th order standards.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The section chief plans the directional traverse. +		
* 2. The section chief selects and marks survey stations. +		
3. The team performs field work as follows: <ul style="list-style-type: none"> a. Sets up theodolite at each station and measures horizontal angles. b. Records all field notes in field notebook. 		
4. The team computes azimuth of orienting lines for all designated units.		
5. The team closes survey on starting station or second known point of equal or higher accuracy.		
* 6. The section chief checks all data.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-82C14-SM-TG	061-302-1026	Record Field Notes
	061-302-1040	Compute Azimuth and Distance From Known Coordinates
	061-302-1041	Compute a Traverse and Closing Data
	061-302-1060	Measure Angles with a 0.2-MIL Theodolite
	061-302-1061	Measure Angles with a 0.002-MIL Theodolite
	061-302-3201	Plan a Traverse Scheme

ARTEP 6-037-30-MTP

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: TANK CO FIST
 MECH INF CO FIST
 CAV/TRP FIST
 COLT
 TRP FIST

TASK: CONDUCT FIRE MISSIONS (FIRE SUPPORT TEAM) (06-5-A008)
 (FM 6-30)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is conducting combat operations. The OP has been established. Enemy targets are visible or suspected. The FIST/COLT/STRIKER team sees a canalized enemy force moving toward friendly positions. Targets suitable for Copperhead engagement may have been identified. The laser locator is operational and oriented. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The FIST/COLT/STRIKER adjusts and fires for effect to destroy, neutralize, or suppress targets and meet the purpose of the EFSTs and commander's guidance.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. The observer maintains observation as follows:+ <ol style="list-style-type: none"> a. Maintains ability to observe and adjust fires while moving or stationary. b. Maintains communications with supporting unit IAW TSOP. c. Maintains current locations of forward elements and other observation teams. d. Conducts a thorough terrain map analysis. e. Takes advantage of cover and concealment. 2. The observer locates targets using one of the following methods of target location:+ <ol style="list-style-type: none"> a. Grid. b. Polar. c. Shift from a known point. d. Laser Polar. 3. The observer conducts voice/digital adjust fire missions.+ <ol style="list-style-type: none"> a. Uses proper radio communications procedures to call for fire (if applicable). b. Uses one of various techniques for area adjustment , such as: <ol style="list-style-type: none"> (1) Successive bracketing. (2) Hasty bracketing. (3) One round adjustment. (4) Creeping fire. c. Bases the deviation corrections on correct observer-target (OT) factor and angular deviation (if applicable). d. Sends subsequent corrections. e. Ensures fire for effect is within 50 meters. 4. The observer conducts voice/digital fire for effect missions.+ <ol style="list-style-type: none"> a. Ensures target location is close enough to have effects with the first volley fired. b. Requests appropriate shell/fuse combination. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>c. If desired effects are not achieved, the observer does the following: adjusts the rounds and repeats; changes shell/fuze combination; requests additional fire for effect volleys.</p> <p>5. The observer conducts voice/digital immediate suppression missions.+ a. The observer identifies the target. b. Transmits complete call for fire. c. Ensures an accurate target location is close enough to have effects with the first volley fired. d. If desired effects are not achieved, the observer does the following: Adjusts the rounds and repeats; changes shell/fuze combination; requests additional fire for effect volleys. e. Ensures final suppression rounds are within 150 meters of the target (if necessary).</p> <p>6. The observer observes munitions effects and reports battle damage assessments to include:+ a. Estimates the extent of damage to the target and/or casualties. b. Reports damage assessment to the FDC providing fires.</p> <p>7. When directed, the observer, with laser locator, conducts a HB/MPI registration (FA only), by voice/digital communications.+ a. FDC transmits orienting data to observer. b. The observer orients on orienting data. c. The observer announces to FDC ready to observe. d. The observer lases the burst. e. The observer records and transmits burst location to FDC until FDC terminates registration.</p> <p>8. The observer registers, confirms, and adjusts a parallel sheaf for mortars.+ a. Uses successive bracketing. b. Sends appropriate corrections to FDC. c. Adjusts sheaf to within 50 meters range and 40 meters lateral spread between rounds.</p> <p>9. The observer engages a moving target array as follows: a. Establishes the speed and direction of movement of the enemy formation. b. Establishes the intercept point.</p> <p>NOTE: The intercept point will be the kill zone for the enemy formation. The amount of time it takes to process the planned mission, plus the time of flight for the rounds, times the probable speed of the formation, equals the minimum distance to plot the intercept point from the target. The direction to the intercept point will be the most likely direction the enemy vehicles will move. c. Determines the trigger point.</p> <p>NOTE: Transmission time plus the time of flight times the target speed, equals distance to emplace trigger point from intercept point. d. Fires the mission when the lead vehicles of the enemy formation crosses the trigger point.</p> <p>10. The observer locates planned targets for Copperhead. Uses appropriate template (if required) to select target engagement areas that: + a. Are visible and provide uninterrupted line of sight. b. Are along likely enemy avenues of approach. c. Provide support to scheme of maneuver or defense. d. Identify priority or on call targets.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>11. The observer transmits targets to FDC.+ a. Uses assigned target number. b. Describes each target clearly , concisely, and accurately.</p> <p>12. The observer attacks planned targets with Copperhead.+ NOTE: The observer is equipped with a laser locator and voice/digital communications. a. Submits request for fire on planned target within 10 seconds. b. Begins designating when FDC commands DESIGNATE. c. Designates last 13 seconds of time of flight or after the command DESIGNATE is received. d. Designates until round impacts. NOTE: If the command DESIGNATE is not sent after SHOT is given, do steps e. and f. below. e. Begins designating when 13 seconds are left in time of flight countdown. f. Designates until round impacts.</p> <p>13. The observer attacks targets of opportunity with Copperhead as follows:+ a. Ensures targets are visible and provides uninterrupted line of sight. b. Uses the appropriate template to select target engagement area. c. Predicts where the intercept point is (moving target). d. Uses AT MY COMMAND or BY ROUND AT MY COMMAND(moving target).</p> <p>14. The observer transmits call for fire for Copperhead.+ a. Begins designating when FDC commands DESIGNATE. b. Designates until round impacts. NOTE: If the battery is firing Copperhead rounds automatically at 20 second intervals, the command DESIGNATE is sent only for thr first round. The operator must continue to designate for the remaining rounds while moving the laser spot to the next target. If SHOT is given for each round or the firing interval is longer than 20 seconds, DESIGNATE is given for each round.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>15. These are variations of fire missions that may be fired when conducting a Fire Mission?</p> <p>FFE (Bn Mass) Echelons Above BN Mass Engage a Moving Target Array Low-Angle Adjust (Fuze time) Precision Registration High-Angle Adjust (Radar or Fo) Coordinated Illumination FPF Adjust Simultaneous missions Quick Smoke Irregularly Shaped Target TOT Schedule of Fires Immediate Suppression Priority Target Sweep and Zone Multiple Volley Mission FFE Copperhead FFE Chemical (Cannot be fired) FFE FASCAM FFE ICM?DPICM (Cannot be fired)</p> <p>These are variations of fire missions that may be fired when conducting a copperhead mission.</p> <p>Engage a Moving Target Array Simultaneous Missions Priority Target FFE Copperhead</p> <p>These are variations of fire missions that may be fired when engaging a moving Target.</p> <p>Echelons Above BN Mass FFE (BN Mass) Engage a Moving Target Array Low-Angle Adjust (Fuze time) Low-Angle Adjust (Radar or Fo) Simultaneous Missions Quick Smoke Irregularly Shaped Target TOT Schedule of Fires Immediate Suppression Priority Target Illumination Immediate Smoke FFE Copperhead</p>		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13E13-SM-TG	061-279-5013	Process a Fire Plan Using the AFC/DS
STP 6-13F14-SM-TG	061-274-2000	Conduct Fire for Effect Mission with the AN/TVQ-2 Ground/Vehicular Laser Locator Designator (G/VLLD) (Dismounted Mode Only)
	061-274-5200	Conduct a Copperhead Mission (Dismounted Mode Only)
	061-283-1002	Locate a Target by Grid Coordinates
	061-283-1003	Locate a Target by Polar Plot
	061-283-1004	Locate a Target by Shift from a Known Point
	061-283-1011	Request and Adjust Area Fire
	061-283-1013	CONDUCT A SUPPRESSION MISSION
	061-283-1014	CONDUCT AN IMMEDIATE SUPPRESSION MISSION
	061-283-1015	CONDUCT A FIRE FOR EFFECT MISSION
	061-283-1016	Measure Distance Using the AN/GVS-5 Laser Range Finder (LRF)
	061-283-1021	REQUEST AND ADJUST COORDINATED ILLUMINATION
	061-283-2002	REQUEST AND ADJUST FINAL PROTECTIVE FIRES
	061-283-2021	CONDUCT AN IMMEDIATE SMOKE MISSION
	061-283-2023	CONDUCT A QUICK SMOKE MISSION
	061-283-2101	Select and Locate a Registration Point
	061-283-2104	CONDUCT A MORTAR REGISTRATION
	061-283-2206	REQUEST FIRE ON IRREGULARLY SHAPED TARGETS
	061-283-5002	Construct a Terrain Sketch
	061-283-5010	Request and Adjust Area Fire Using the AN/GVS-5 Laser Range Finder (LRF)
	061-284-3030	Request Close Air Support (CAS)
	061-284-3046	Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements
	061-284-5005	CONTROL CLOSE AIR SUPPORT
	061-284-5006	CONDUCT A MOVING TARGET MISSION
	061-301-5000	Process Recorded Targets and Known Points Using the AN/PSG-7
	061-301-5001	Process a Precision Registration Mission Using the AN/PSG-7
	061-301-5002	Process an Area Fire Mission Using the AN/PSG-7
	061-301-5006	Conduct a Final Protective Fire Mission Using the AN/PSG-7

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-301-5007	Process Monitored Messages on the AN/PSG-7
	061-301-5008	Process Routed Messages as a Fist Using the AN/PSG-7
	061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
	061-301-5010	Process Graphics Data in the AN/PSG-7
	061-301-5011	Process Fire Plan Information Using the AN/PSG-7
	061-301-8000	Prepare the AN/PSG-7 for Operation
	061-301-8001	Perform Self-Location Using the AN/PSG-7
	061-354-2017	Remove and Stow the G/VLLD from the Targeting Head
	061-354-2022	Install the G/VLLD into the Targeting Head
	061-354-2030	Install the AN/TAS-4B into the Targeting Head
	061-354-2031	Conduct a Highburst Registration Using the Targeting Station
	061-354-2032	Conduct a Fire For Effect Mission Using a Targeting Station
	061-354-2036	Request and Adjust a Final Protective Fire Using Targeting Station
	061-354-5202	Conduct a Copperhead Mission Using the Targeting Station
	061-355-5100	PREPARE THE FOS HTU FOR OPERATION
	061-355-5101	PREPARE THE FOS LCU FOR OPERATION
STP 6-13F14-SM-TG(VER11)	061-274-2000	Conduct Fire for Effect Mission with the AN/TVQ-2 Ground/Vehicular Laser Locator DesignatorI (G/VLLD) (Dismounted Mode Only)
	061-274-5200	Conduct a Copperhead Mission (Dismounted Mode Only)
	061-283-1002	Locate a Target by Grid Coordinates
	061-283-1003	Locate a Target by Polar Plot
	061-283-1004	Locate a Target by Shift from a Known Point
	061-283-1011	Request and Adjust Area Fire
	061-283-1013	CONDUCT A SUPPRESSION MISSION
	061-283-1014	CONDUCT AN IMMEDIATE SUPPRESSION MISSION
	061-283-1015	CONDUCT A FIRE FOR EFFECT MISSION
	061-283-1016	Measure Distance Using the AN/GVS-5 Laser Range Finder (LRF)
	061-283-1021	REQUEST AND ADJUST COORDINATED ILLUMINATION
	061-283-2002	REQUEST AND ADJUST FINAL PROTECTIVE FIRES
	061-283-2021	CONDUCT AN IMMEDIATE SMOKE MISSION
	061-283-2023	CONDUCT A QUICK SMOKE MISSION
	061-283-2101	Select and Locate a Registration Point
	061-283-2104	CONDUCT A MORTAR REGISTRATION
	061-283-2206	REQUEST FIRE ON IRREGULARLY SHAPED TARGETS
	061-283-5002	Construct a Terrain Sketch

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-283-5010	Request and Adjust Area Fire Using the AN/GVS-5 Laser Range Finder (LRF)
	061-284-3030	Request Close Air Support (CAS)
	061-284-3046	Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements
	061-284-5005	CONTROL CLOSE AIR SUPPORT
	061-284-5006	CONDUCT A MOVING TARGET MISSION
	061-301-5000	Process Recorded Targets and Known Points Using the AN/PSG-7
	061-301-5001	Process a Precision Registration Mission Using the AN/PSG-7
	061-301-5002	Process an Area Fire Mission Using the AN/PSG-7
	061-301-5006	Conduct a Final Protective Fire Mission Using the AN/PSG-7
	061-301-5007	Process Monitored Messages on the AN/PSG-7
	061-301-5008	Process Routed Messages as a Fist Using the AN/PSG-7
	061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
	061-301-5010	Process Graphics Data in the AN/PSG-7
	061-301-5011	Process Fire Plan Information Using the AN/PSG-7
	061-301-8000	Prepare the AN/PSG-7 for Operation
	061-301-8001	Perform Self-Location Using the AN/PSG-7
	061-354-2017	Remove and Stow the G/VLLD from the Targeting Head
	061-354-2022	Install the G/VLLD into the Targeting Head
	061-354-2030	Install the AN/TAS-4B into the Targeting Head
	061-354-2031	Conduct a Highburst Registration Using the Targeting Station
	061-354-2032	Conduct a Fire For Effect Mission Using a Targeting Station
	061-354-2036	Request and Adjust a Final Protective Fire Using Targeting Station
	061-354-5202	Conduct a Copperhead Mission Using the Targeting Station
	061-355-5100	PREPARE THE FOS HTU FOR OPERATION
	061-355-5101	PREPARE THE FOS LCU FOR OPERATION

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: MVR BN FSE
 TANK CO FIST
 MECH INF CO FIST
 CAV/TRP FIST
 COLT
 TRP FIST

TASK: ESTABLISH FIRE SUPPORT OPERATIONS (06-5-A047)
 (FM 6-30) (FM 6-20-20) (FM 6-71)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: A supported company/troop is conducting combat operations, or combat is imminent. Fire support team (FIST) personnel have been briefed by the battalion/squadron FSO. They have arrived at the supported maneuver company/troop CP area. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The FIST will establish a fire support team HQ IAW unit TSOP that provides continuous and timely fire support planning, coordination, and execution for the supported company/troop.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>1. Co-locates the FIST HQ with company/troop CP or as directed by supported commander.</p> <p>* 2. Establishes and maintains a FIST HQ as follows:+</p> <ul style="list-style-type: none"> a. The FS sergeant or his designated representative initializes the computer systems. b. The FS sergeant or his designated representative establishes communications (voice and/or digital) with appropriate agencies, such as: <ul style="list-style-type: none"> (1) Battalion FDC. (2) Battery FDC, as appropriate. (3) Maneuver battalion FSE. (4) Maneuver company commander. (5) Mortar FDC, as appropriate. (6) Forward observers. (7) Other FS agencies, as appropriate. c. The company FSO obtains initial guidance from the company/troop commander. d. The FS sergeant or his designated representative determines and reports FIST HQ location to appropriate FDCs and FSEs. <p>NOTE: A fire support vehicle (FSV) is available. All systems are operational. Standards at paragraph e. through g. below apply.</p> <ul style="list-style-type: none"> e. The FS sergeant or his designated representative initiates and operates the targeting station. f. The FS sergeant or his designated representative initiates and operates the communications station. g. The FS sergeant or his designated representative initiates and operates the observation station. <p>* 3. The company FSO or his designated representative keeps the maneuver commander advised on FS operations and capabilities as follows: +</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>a. Advises the company/troop commander on the capabilities, limitations, and employment of all fire support assets available to support his operations.</p> <p>b. Informs the company/troop commander of enemy FS capabilities, limitations, and employment doctrine.</p> <p>* 4. The company FSO or his designated representative obtains and manages current FS information (battle tracking), such as:+</p> <p>a. Target attack guidance, battalion/company FS execution matrix, friendly and enemy situation, scheme of fires, assigned EFSTs (essential fire support tasks) , HPTL (high payoff target list), status of available FS systems, call signs/frequencies, observer codes, etc.</p> <p>b. Situation map must display maneuver and FS graphics, such as:</p> <p>(1) Maneuver control measures.</p> <p>(2) FSCMs.</p> <p>(3) Location of maneuver units.</p> <p>(4) Location/range fans of FS systems.</p> <p>(5) Observer locations.</p> <p>c. Disseminates above information to platoon forward observers (FOs) and other observers as appropriate.</p> <p>d. Reports to the direct support (DS) battalion operations/FDC, or battery FDC, and battalion FSE the disposition of the company/troop on the ground, to include location and patrol actions.</p> <p>e. Disseminates FS annex for tactical operations to battalion FSE as quickly as possible without being compromised.</p> <p>f. Reports all acquired information (size, activity, location, unit, time, and equipment (SALUTE) about enemy activities reported by observer assets to battalion FSE and DS battalion.</p> <p>NOTE: A laser designator system (LDS) is available and operational.</p> <p>* 5. The FIST will manage lasing operations in assigned area.</p> <p>a. The company FSO or his designated representative ensures selection and occupation of a position that will provide maximum line of sight and coverage of the AO for LDS, mutual support for other LDS positions, and defilade when possible.</p> <p>b. The FS sergeant or his designated representative orients LDS for direction and bore sight, night sight, if necessary.</p> <p>c. The company FSO or his designated representative ensures location facilitates communications with supported unit and FS assets.</p> <p>d. The company FSO or his designated representative ensures location and cloud height are reported to battalion FSE and FDCs.</p>		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title	
STP 6-13F14-SM-TG	061-274-3987	CONSTRUCT A LASER RANGE SAFETY FAN FOR THE AN/TVQ-2 GROUND/VEHICULAR LOCATOR DESIGNATOR (G/VLLD)	
	061-283-2051	SELECT AND OCCUPY AN OBSERVATION POST	
	061-283-5010	Request and Adjust Area Fire Using the AN/GVS-5 Laser Range Finder (LRF)	
	061-284-3004	Advise Supported Unit of Friendly Fire Support Capabilities and Limitations	
	061-284-3046	Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements	
	061-284-3220	Establish the Fire Support Team (FIST) Headquarters Communications	
	061-284-3226	Produce Company Fire Support Plan	
	061-284-3227	Process Forward Observer Target Lists	
	061-299-5004	Maintain TAFCS Communications	
	061-299-5006	Perform Continuity of Operations	
	061-299-5010	Process Fire Planning	
	061-301-5007	Process Monitored Messages on the AN/PSG-7	
	061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7	
	061-301-5011	Process Fire Plan Information Using the AN/PSG-7	
	061-301-8000	Prepare the AN/PSG-7 for Operation	
	061-302-8002	Establish the AN/PSG-7 Operational Parameters	
	061-354-2007	DETERMINE THE CLOUD HEIGHT USING THE TARGETING STATION	
	061-354-2022	Install the G/VLLD into the Targeting Head	
	061-354-2030	Install the AN/TAS-4B into the Targeting Head	
	061-354-5201	PERFORM SELF-LOCATION USING THE TARGETING STATION	
	061-355-5100	PREPARE THE FOS HTU FOR OPERATION	
	061-355-5104	Transmit Information Messages	
	061-355-5106	Initialize the Graphics Map	
	061-355-5201	View & Update or Transmit Database Records from the Graphics Map	
	STP 6-13F14-SM-TG(VER11)	061-274-3987	CONSTRUCT A LASER RANGE SAFETY FAN FOR THE AN/TVQ-2 GROUND/VEHICULAR LOCATOR DESIGNATOR (G/VLLD)
		061-283-2051	SELECT AND OCCUPY AN OBSERVATION POST
		061-283-5010	Request and Adjust Area Fire Using the AN/GVS-5 Laser Range Finder (LRF)
061-284-3004		Advise Supported Unit of Friendly Fire Support Capabilities and Limitations	
061-284-3046		Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements	
061-284-3220		Establish the Fire Support Team (FIST) Headquarters Communications	

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-284-3226	Produce Company Fire Support Plan
	061-284-3227	Process Forward Observer Target Lists
	061-299-5004	Maintain TAFCS Communications
	061-299-5006	Perform Continuity of Operations
	061-299-5010	Process Fire Planning
	061-301-5007	Process Monitored Messages on the AN/PSG-7
	061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
	061-301-5011	Process Fire Plan Information Using the AN/PSG-7
	061-301-8000	Prepare the AN/PSG-7 for Operation
	061-302-8002	Establish the AN/PSG-7 Operational Parameters
	061-354-2007	DETERMINE THE CLOUD HEIGHT USING THE TARGETING STATION
	061-354-2022	Install the G/VLLD into the Targeting Head
	061-354-2030	Install the AN/TAS-4B into the Targeting Head
	061-354-5201	PERFORM SELF-LOCATION USING THE TARGETING STATION
	061-355-5100	PREPARE THE FOS HTU FOR OPERATION
	061-355-5104	Transmit Information Messages
	061-355-5106	Initialize the Graphics Map
	061-355-5201	View & Update or Transmit Database Records from the Graphics Map

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: TRP FIST
 COLT
 TANK CO FIST
 MECH INF CO FIST
 CAV/TRP FIST

TASK: COORDINATE AND CONTROL FIRE PLAN EXECUTION (06-5-C040)
 (FM 6-30) (FM 6-20) (FM 6-71)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The supported company/troop is conducting combat operations. The company/troop is fighting the battle as specified in the OPORD. The FIST HQ is operational. Fire support requests are being received from platoon observers, and other observers, for both planned targets and targets of opportunity. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Fire support assets are employed and the maneuver commander's guidance is achieved IAW the fire support execution matrix and EFSTs as modified by the dynamic tactical situation.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The company FSO positions himself and FOs where they can best execute EFSTs.</p> <p>* 2. The company FSO communicates with the supported commander, higher FSE, FA battalion FDC, mortar FDC, and other FS agencies and FOs.</p> <p>3. The FIST HQ performs battle tracking of the status of locations of:</p> <ul style="list-style-type: none"> a. All maneuver elements with the battalion. b. FS assets available to the company/troop. c. Assigned targets and primary/secondary observers. d. Current and proposed FSCMs. <p>4. The FIST HQ controls positive clearance of fires on planned and targets of opportunity from its observers. +</p> <p>NOTE: Calls for fires (CFFs) are being initiated on planned targets by forward observers.</p> <p>* 5. The company FSO or his designated representative will process planned FS requests as follows: +</p> <ul style="list-style-type: none"> a. Receives and analyzes for compliance with commander's attack guidance. b. Forwards all request for planned fires from platoon FOs, and other company observers for all on call targets, immediate suppression, SEAD, and final protective fires (FPFs). c. Ensures planned fires are continually updated on the basis of the tactical situation and fire support coordinating measures. <p>NOTE: A planned delivery unit is not available due to changes in commander's guidance or additional requirements.</p> <ul style="list-style-type: none"> d. Determines priority of mission. Requests alternate means of FS to attack target(s). <p>* 6. The company FSO monitors and processes CFFs on targets of opportunity that meet the commander's attack guidance.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 7. The company FSO or his designated representative monitors CFFs and intercedes only when a request is to be disapproved or if additional coordination is required.</p> <p>* 8. the FIST performs target analysis to ensure proper engagements:+</p> <p>a. The company FSO or his designated representative analyzes targets on the basis of time available. He considers the following:</p> <p>(1) Target characteristics: Composition, degree of protection, size, shape and mobility.</p> <p>(2) Location: Proximity to friendly troops and accuracy of target location.</p> <p>(3) Terrain and weather.</p> <p>(4) Weapon and munitions available.</p> <p>b. The company FSO or his designated representative determines the effect the target will have on the mission, need for immediate attack, and available FS assets to attack.</p>		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13F14-SM-TG	061-284-1001	PREPARE/SUBMIT FORWARD OBSERVER TARGET LIST
	061-284-3004	Advise Supported Unit of Friendly Fire Support Capabilities and Limitations
	061-284-3046	Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements
	061-284-3220	Establish the Fire Support Team (FIST) Headquarters Communications
	061-284-3226	Produce Company Fire Support Plan
	061-284-3227	Process Forward Observer Target Lists
	061-284-4000	Analyze the Formations of Threat Forces
	061-284-4022	Coordinate Fires
	061-284-4209	Plan and Coordinate Fire Support to Suppress Enemy Air Defense
	061-284-4243	Plan for the Employment of Smart Weapons and Special Munitions
	061-301-5000	Process Recorded Targets and Known Points Using the AN/PSG-7
	061-301-5008	Process Routed Messages as a Fist Using the AN/PSG-7

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13F14-SM-TG(VER11)	061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
	061-301-5010	Process Graphics Data in the AN/PSG-7
	061-284-1001	PREPARE/SUBMIT FORWARD OBSERVER TARGET LIST
	061-284-3004	Advise Supported Unit of Friendly Fire Support Capabilities and Limitations
	061-284-3046	Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements
	061-284-3220	Establish the Fire Support Team (FIST) Headquarters Communications
	061-284-3226	Produce Company Fire Support Plan
	061-284-3227	Process Forward Observer Target Lists
	061-284-4000	Analyze the Formations of Threat Forces
	061-284-4022	Coordinate Fires
	061-284-4209	Plan and Coordinate Fire Support to Suppress Enemy Air Defense
	061-284-4243	Plan for the Employment of Smart Weapons and Special Munitions
	061-301-5000	Process Recorded Targets and Known Points Using the AN/PSG-7
	061-301-5008	Process Routed Messages as a Fist Using the AN/PSG-7
	061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
061-301-5010	Process Graphics Data in the AN/PSG-7	

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: CONDUCT A CHEMICAL SURVEY (03-2-C310.06-0000)
 (FM 3-3) (STP 21-1-SMCT) (STP 21-24-SMCT)
 (STP 21-II-MQS) (STP 21-I-MQS) (FM 3-4)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Chemical contamination may be present in an area of operational concern. Monitoring reports do not provide an accurate picture of the hazard area. Higher HQ directs that the area be surveyed. This task is always performed in MOPP4.

TASK STANDARDS: The survey team moves to the suspected area of contamination, determine the initial limits and defines the actual boundary of contamination and submit results of survey back to higher HQ IAW BC/platoon leader guidance and applicable FMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. BC/platoon leader issues guidance to survey team to include the following: <ul style="list-style-type: none"> a. Mission. b. Special instructions. 2. Survey team prepares to conduct the survey as follows: + <ul style="list-style-type: none"> a. Assumes MOPP level 4 before entering the suspected area of contamination. b. Attaches M9 detector paper to personnel and vehicles. c. Ensures M256A1 chemical agent detection kit is present. d. Ensures M8A1 chemical agent alarm is loaded. e. Ensures M8 and M9 detector paper is loaded. f. Ensures M272 water test kit is loaded. g. Ensures the Chemical Agent Monitor (CAM) is loaded. 3. Survey team receives briefing from survey control party. Briefing includes the following: + <ul style="list-style-type: none"> a. States the amount of time allowed for completion of survey. b. Describes the operational situation as it pertains to the conduct of the survey. c. Describes the enemy and friendly situation. d. States any factual information available about the suspected contaminated area to include the following: <ul style="list-style-type: none"> (1) Source of contamination. (2) Terrain and weather. (3) How the contamination was delivered. e. Issues a clear and concise statement of mission to include specific tasks to be accomplished. f. Briefs the survey team on the concept of operation. g. States the specific coordinating instructions. h. Indicates the time of departure and return. i. Identifies primary and alternate routes to and from the suspected area of contamination. j. Identifies administration and logistical requirements. k. Identifies required forms. l. Identifies required equipment. m. Identifies command and signal procedures. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>4. Survey team conducts the survey as follows:</p> <ul style="list-style-type: none"> a. Survey team moves to the suspected area of contamination. b. Team NCOIC identifies a starting point for the team IAW initial overlay. c. Team NCOIC ensures that the team conducts tests with the M256A1 detector kit at the initial testing point. d. Team NCOIC ensures that the team uses detector paper to take readings at every 200 meter interval until agent reacts with the detector paper or until each team member comes within 200 meters of the attack center. e. Collects samples at selected intervals. f. Team NCOIC ensures that all team members reach the last point at about the same time. g. Team NCOIC determines the initial limits of contamination. h. Team executes 180 degree turn and proceeds backward along the previously used path halfway to the last sampling point. i. Team rechecks again for contamination. j. Team continues the bracketing techniques to refine the initial limits of hazard. <p>NOTE: Team NCOIC analyzes the situation to approximate the suspected boundary of hazard.</p> <p>NOTE: From the initial limit of contamination, the team NCOIC aligns the team perpendicular to the suspected boundary of contamination with 10 to 100 meter intervals (depending on terrain).</p> <p>NOTE: Team continues testing and collecting samples for contamination until the entire boundary of contamination is defined.</p> <ul style="list-style-type: none"> k. Team NCOIC ensures that all members exit the area by using the route established by the vehicle operator. <p>* 5. Team NCOIC records the results of the chemical survey on the chemical survey data form. +</p> <ul style="list-style-type: none"> a. Identifies the type of agent(s) present within area. b. Identifies the location of contamination. c. Identifies the type of test used to confirm contamination. <p>6. Team completes survey as follows: +</p> <ul style="list-style-type: none"> a. Team NCOIC reports results to the control party. b. Team marks contaminated area. c. Team moves to designated decontamination area. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	031-503-1014	IDENTIFY CHEMICAL AGENTS USING M8 DETECTOR PAPER
	031-503-1015	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WITH MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
	031-503-1020	DETECT CHEMICAL AGENTS USING M9 DETECTOR PAPER
	071-329-1005	DETERMINE A LOCATION ON THE GROUND BY TERRAIN ASSOCIATION
STP 21-24-SMCT	031-503-2001	USE M256 OR M256A1 CHEMICAL AGENT DETECTOR KIT
	031-503-3004	SUPERVISE THE CROSSING OF A CONTAMINATED AREA
	031-503-3008	IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE
	031-503-3010	SUPERVISE EMPLOYMENT OF NUCLEAR, BIOLOGICAL, OR CHEMICAL MARKERS
STP 21-II-MQS	071-326-5626	PREPARE AN ORAL OPERATION ORDER
	O4-3303.02-0014	Prepare Platoon or Company Combat Orders
	O4-5030.00-2013	Implement Mission-Oriented Protective Posture Based on Threat or Direction
STP 21-I-MQS	O4-5030.00-2022	Supervise Employment of Nuclear, Biological, or Chemical Markers
	04-3303.01-0020	Prepare Squad/Platoon Combat Orders

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: CONDUCT THOROUGH DECONTAMINATION OPERATIONS (03-2-C312.06-A001)
 (FM 3-5) (STP 21-1-SMCT) (STP 21-24-SMCT)
 (STP 21-II-MQS) (FM 3-3) (FM 3-4)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: A unit is contaminated with a persistent chemical agent during combat operations. Time is available to conduct reconstitution, to include thorough decontamination. A supporting smoke/decon (or decon) platoon is tasked to conduct the thorough decontamination mission. This task is always performed in MOPP4.

TASK STANDARDS: The smoke/decon platoon sets up the detailed equipment decon site and removes all contamination from the equipment/vehicles. The contaminated unit sets up the detailed troop decon (with technical advise from the decon platoon) and processes all personnel. The responsible units properly close the site and report the location to higher headquarters.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. Contaminated unit's leader determines extent of contamination and establishes decontamination priorities. + <ol style="list-style-type: none"> a. Receives input from subordinate leaders/staff. b. Establishes priorities of decontamination. 2. Contaminated unit submits request for decontamination to higher headquarters. Request should, as a minimum, include <ol style="list-style-type: none"> a. Designation of the contaminated unit. b. Location of the contaminated unit. + c. Frequency and call sign of the contaminated unit. + d. Time the unit became contaminated. e. Number of vehicles/equipment, by type, that are contaminated. + f. Type of contamination. + g. Earliest possible time the unit can move/begin decontamination. h. Special requirements. (patient decon station, recovery assets, unit decon team, etc.) + 3. The contaminated unit's higher headquarters chemical staff -- <ol style="list-style-type: none"> a. Issues a warning order to the supporting chemical unit. b. Coordinates the movement of the contaminated unit to the link -up point and decon site. + c. Coordinates with supporting elements. (medical, engineer, air defense, military police, smoke support etc.) <p style="margin-left: 40px;">NOTE: The contaminated unit is responsible for providing security for the decon site. Support in this area must be coordinated prior to the units arriving at the link up point.</p> 4. Contaminated unit, decon platoon, and other supporting elements arrive at the link up point. 5. Decon platoon leader briefs on site layout and procedures. 6. Contaminated unit conducts pre-decon site/staging area activities. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>a. Segregate contaminated vehicles/equipment from the uncontaminated, if possible +</p> <p>b. Crews, except drivers, dismount the vehicles, ensuring that they-</p> <ol style="list-style-type: none"> (1) Remove all equipment from the top of the vehicle. (2) Do not reenter the vehicles once they have exited (to prevent further contamination of the interior of the vehicle). <p>c. Prepare vehicles for detailed equipment decon. +</p> <ol style="list-style-type: none"> (1) Remove all heavy mud and debris from the vehicle using pioneer tools (2) Remove seat covers, canvas items, camouflage netting, and other materials which can absorb chemical contaminants. (3) Remove NBC covers and dispose of as contaminated waste. <p>d. Move contaminated personnel and vehicles/equipment to the detailed troop and equipment decon lines.</p> <p>7. Designated personnel set up and maintain communications within the decon site and coordinate with the supported unit for additional communications support. +</p> <p>8. The decon unit sets up detailed equipment decon site. The following are the detailed equipment decon site stations:</p> <ol style="list-style-type: none"> a. STATION 1. Initial Wash, STATION 2. DS2 Application, STATION 3. Wait/Interior Decon, STATION 4. Rinse, STATION 5. Check. <p>9. Contaminated unit sets up detailed troop decontamination site. The following are the detailed troop decon site stations: +</p> <ol style="list-style-type: none"> a. STATION 1. Individual Gear Decon, STATION 2. Over boot and Hood Decon, STATION 3. Overgarment Removal, STATION 4. Over boot and Glove Removal, STATION 5. Monitor. STATION 6. Mask Removal, STATION 7. Mask. Decon Point, STATION 8. Reissue Point. <p>NOTE: A route to facilitate the movement of vehicle operators from Station 3 of the detailed equipment decon site to the detailed troop decon site must be established.</p> <p>10. Decon platoon leader (in conjunction with the leader, or control cell, from the contaminated unit supervises the overall thorough decon site operations. +</p> <p>11. Decon platoon processes vehicles/equipment through the detailed equipment decon stations.</p> <ol style="list-style-type: none"> a. Contaminated unit provides guides to control vehicle traffic through the site. + b. Drivers move the vehicles/equipment through the stations. c. Assistant drivers who have processed through the detailed troop decon stations replaces the primary drivers at station 3, once interior decon is completed. d. The primary drivers proceed to the detailed troop decon site to process through the stations. e. Soldiers from the detailed troop decon site and vehicles/equipment from the detailed equipment decon site reunite and move to the reconstitution area. <p>12. Decon personnel close the detailed equipment decon site.</p> <ol style="list-style-type: none"> a. Station 1. <ol style="list-style-type: none"> (1) Decon all equipment used at the station (PDDE, hoses, nozzles, etc). (2) Check all equipment for contamination, and decon again if necessary. (3) Drain water from billets or fabric tanks. (4) Load equipment on vehicles. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>(5) Spread a can of STB in each sump and cover the sumps. (6) Mark the sumps.</p> <p>b. Station 2 (for chemical/biological only). (1) Apply DS2 to PDDE, mops, handles, decon apparatus, and containers. (2) Discard mop heads, brushes, and station sign into the sump and then pull PDDE forward and wash entire application point. (3) Load unused decontaminants onto vehicles. (4) Mark the area and move all reusable equipment from station 2 to station 3.</p> <p>c. Station 3. (1) Inspect unused supplies for contamination, if uncontaminated load into vehicles. (2) Throw contaminated supplies into the nearest sump.</p> <p>d. Station 4. (1) Decon all equipment used at the station (PDDE, hoses, nozzles, etc). (2) Check all equipment for contamination, and decon again if necessary. (3) Drain water from billets or fabric tanks. (4) Load equipment on vehicles. (5) Spread a can of STB in each sump and cover the sumps (after the residue from station 5 has been placed in the sump). (6) Mark the sumps.</p> <p>e. Station 5. (1) Decon all equipment used at the station. (2) Load all reusable equipment onto vehicles. (3) Discard unusable items into station 4 sump.</p> <p>13. The decon platoon moves to the troop decon site for decon.</p> <p>14. Station personnel clean up the detailed troop decon site. a. Place all used supplies from station 7 into the station 7 sump. b. Move all usable equipment and supplies from all stations to station 1. c. Discard unusable supplies from stations 5, 4, and 3 into the sump at station 1. d. Decontaminate all supplies and equipment collected at station 1. e. Empty and rinse the decontaminant containers from station 1 into the sump at that station. f. Mark the area. g. Remove overgarments utilizing the MOPP gear exchange technique h. Dispose of used overgarments into the station 1 sump. i. Move all equipment used to fill the sump upwind of the decon area. j. Decon rubber gloves and move all equipment from station 1 upwind of the decon area. (Keep this equipment separate from the equipment used the fill the sump.) k. Remove and bury the over boots and gloves in a hole. l. Mark the hole and/or area. m. Submit NBC 4 Report to higher headquarters defining the areas of contamination resulting from the decon operation.</p> <p>15. Platoon conducts reconstitution activities. + a. Coordinates with supported battalions for assessment and recovery team(s). b. Coordinates and requests maintenance support. c. Coordinates and requests medical support. d. Coordinates and establishes logistical support for resupply activities.</p>		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	031-503-1004	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION USING YOUR M17-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1006	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WHEN DRINKING FROM YOUR CANTEEN WHILE WEARING YOUR PROTECTIVE MASK
	031-503-1007	DECONTAMINATE YOUR SKIN AND PERSONAL EQUIPMENT USING AN M258A1 DECONTAMINATION KIT
	031-503-1008	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION WHILE ELIMINATING BODYWASTE WHEN WEARING MOPP4
	031-503-1011	MAINTAIN YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1012	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1014	IDENTIFY CHEMICAL AGENTS USING M8 DETECTOR PAPER
	031-503-1020	DETECT CHEMICAL AGENTS USING M9 DETECTOR PAPER
	031-503-1033	DECONTAMINATE YOUR SKIN USING THE M291 SKIN DECONTAMINATING KIT (SDK)
	031-503-1034	DECONTAMINATE YOUR INDIVIDUAL EQUIPMENT USING THE M295 INDIVIDUAL EQUIPMENT DECONTAMINATION KIT (IEDK)
STP 21-24-SMCT	031-503-3009	LEAD MOPP GEAR EXCHANGE
	031-507-3003	SUPERVISE HASTY DECONTAMINATION
STP 21-II-MQS	071-326-3013	CONDUCT A TACTICAL ROAD MARCH
	O4-5030.00-2020	Supervise Nuclear, Biological, or Chemical Decontamination

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PREPARE FOR OPERATIONS UNDER NBC CONDITIONS (03-3-C201.06-A002)
 (FM 3-3) (FM 3-4) (STP 21-1-SMCT)
 (STP 21-24-SMCT) (STP 21-II-MQS) (STP 6-13II-MQS)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Higher headquarters informs the unit that the OPFOR is using NBC warfare in the area. NBC equipment has been issued. Soldiers carry protective mask with their LCE having MOPP gear readily available (within the work area). Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Unit leaders ensure that: NBC detection equipment can be employed and operating within 15 minutes; personnel can assume MOPP4 within 8 minutes; and, personnel can mask and hood with 15 seconds. Upon notification, the unit uses collective protection or takes measures to limit effects of NBC contamination and continues the mission IAW applicable FMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. Unit leaders check accountability and serviceability of NBC defense equipment and: +</p> <ul style="list-style-type: none"> a. Ensures that unit NBC detection equipment is issued to trained operators. b. Ensures that NBC detection equipment is employed and operating within 15 minutes. c. Identifies equipment shortages and takes action to obtain replacement equipment.. <p>2. Unit assumes MOPP levels as directed by higher HQ, or as the NBC situation dictates, as follows: +</p> <ul style="list-style-type: none"> a. Personnel can mask and hood with 15 seconds. b. Personnel can assume MOPP4 within 8 minutes. <p>3. Unit personnel take actions to protect themselves against NBC attack.</p> <ul style="list-style-type: none"> a. Sets up and uses protective shelters if available. b. Prepares protective shelters such as foxholes with overhead cover or CPs dug into a hill and hardened. <p>* 4. Unit leader adjusts MOPP level using MOPP analysis. +</p> <ul style="list-style-type: none"> a. Receives and assesses the enemy NBC threat capability. NOTE: Some considerations are: What is the mission? What is the work rate? How long will the work take? What is the physical training level of the unit? How long will it take to warn all personnel? b. Assesses the unit status and mission. Note Some considerations are: Is it day or night? What are the current weather conditions? What are the expected weather conditions two, four or six hours in the future? c. Collects and assesses weather data. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title	
STP 21-1-SMCT	031-503-1004	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION USING YOUR M17-SERIES PROTECTIVE MASK WITH HOOD	
	031-503-1006	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WHEN DRINKING FROM YOUR CANTEEN WHILE WEARING YOUR PROTECTIVE MASK	
	031-503-1012	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD	
	031-503-1015	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WITH MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR	
	031-503-1020	DETECT CHEMICAL AGENTS USING M9 DETECTOR PAPER	
	031-503-1023	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WHEN CHANGING MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR	
	031-503-1024	REPLACE CANISTER ON YOUR M40-SERIES PROTECTIVE MASK	
	031-503-1025	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION USING YOUR M40-SERIES PROTECTIVE MASK WITH HOOD	
	STP 21-24-SMCT	031-503-2001	USE M256 OR M256A1 CHEMICAL AGENT DETECTOR KIT
		031-503-2013	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM174-SERIES RADIACMETER
031-503-2020		USE AND PERFORM OPERATOR MAINTENANCE ON THE IM93 OR IM147 DOSIMETER AND PP1578-SERIES CHARGER	
031-503-2022		USE AND MAINTAIN THE AN/VDR-2 RADIAC SET	
031-503-3004		SUPERVISE THE CROSSING OF A CONTAMINATED AREA	
031-503-3006		SUPERVISE RADIATION MONITORING	

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	031-503-3008	IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE
	031-503-3008	IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE
	031-503-3009	LEAD MOPP GEAR EXCHANGE
	031-503-3010	SUPERVISE EMPLOYMENT OF NUCLEAR, BIOLOGICAL, OR CHEMICAL MARKERS
	031-503-4002	SUPERVISE UNIT PREPARATION FOR NBC ATTACK
	031-503-4003	CONTROL UNIT RADIATION EXPOSURE
	031-504-3001	SUPERVISE POSITIONING OF THE CHEMICAL AGENT ALARM
STP 21-II-MQS	O4-5030.00-2013	Implement Mission-Oriented Protective Posture Based on Threat or Direction
	O4-5030.00-2015	Supervise Radiation Monitoring
	O4-5030.00-2017	Prepare for Nuclear, Biological, or Chemical Attack

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PREPARE FOR A CHEMICAL ATTACK (03-3-C202.06-A003)

(FM 3-3)

(FM 3-4)

(FM 3-5)

(STP 21-1-SMCT)

(STP 21-24-SMCT)

(STP 21-II-MQS)

(STP 21-I-MQS)

(FM 3-100)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The OPFOR are using chemical warfare, or intelligence indicates its use is imminent. Higher HQ directs implementation of actions to minimize casualties and equipment damages. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The unit must assume MOPP level 4, within 8 minutes after notification, and complete its preparation efforts before the attack or the effects of the attack reaching the unit location. Personnel, equipment, food, and water must be protected IAW applicable FMs, and the mission continued.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. Unit leader issues a warning order. + 2. The unit personnel start defensive preparation for a chemical attack. + a. Assume MOPP level 4 within eight minutes after notification. b. Attach M9 detector paper to their right arms and left wrists, and to either their right or left ankles. c. Conduct MOPP field sanitation procedures. 3. Emplace chemical agent alarms upwind of position. Unit personnel prepare fighting positions/shelters. + a. Use existing natural or manmade facilities as fighting positions and shelters (such as caves, ditches, culverts, and tunnels). b. Dig fighting positions and bunkers with overhead cover. NOTE: Fighting positions should have at least a minimum of 18 inches of soil, if time permits. 4. NCOs check personnel and fighting positions. + a. Ensure personnel are at MOPP level 4. b. Ensure individual and platoon fighting positions are hardened with sandbags and overhead cover. 5. Unit leader takes additional actions consistent with the tactical situation by increasing, decreasing, or modifying MOPP level as appropriate. +		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	031-503-1015	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WITH MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
	031-503-1020	DETECT CHEMICAL AGENTS USING M9 DETECTOR PAPER
STP 21-24-SMCT	031-503-3008	IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE
	031-503-4002	SUPERVISE UNIT PREPARATION FOR NBC ATTACK
	031-504-3001	SUPERVISE POSITIONING OF THE CHEMICAL AGENT ALARM
STP 21-II-MQS	O4-3303.02-0014	Prepare Platoon or Company Combat Orders
	O4-5030.00-2013	Implement Mission-Oriented Protective Posture Based on Threat or Direction
	O4-5030.00-2017	Prepare for Nuclear, Biological, or Chemical Attack
STP 21-I-MQS	04-3303.01-0020	Prepare Squad/Platoon Combat Orders

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: RESPOND TO A CHEMICAL ATTACK (03-3-C203.06-A004)

(FM 3-3)

(FM 3-4)

(FM 3-5)

(STP 21-1-SMCT)

(STP 21-24-SMCT)

(STP 21-II-MQS)

(STP 21-I-MQS)

(FM 3-100)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is tactically deployed in MOPP 2. Intelligence reports that OPFOR has initiated chemical warfare. Automatic alarm sounds, or detector paper changes color causing the element to react. This task is always performed in MOPP4.

TASK STANDARDS: Soldiers respond to and sound the chemical alarm (vocal/nonvocal) by donning protective masks with hood within 15 second and going immediately to MOPP 4 IAW applicable FMs to prevent further exposure to contamination.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. Unit OIC/NCOIC ensures that element members react to the sound of the chemical agent alarm or recognize the indicators for a chemical/ biological attack. + <ol style="list-style-type: none"> a. Personnel put on protective mask with hood within 15 seconds. b. Personnel give the alarm (vocal or nonvocal). c. Goes to MOPP 4 as soon as possible. d. Seeks additional shelter if needed. e. Administers nerve agent antidote (buddy aid) to other members with symptoms of nerve agent poisoning if applicable. f. Administers nerve agent antidote to self (self aid) if applicable. g. Checks platoon members to ensure protective measures are followed. 2. Unit personnel take additional protective measures as needed. + <ol style="list-style-type: none"> a. Protect exposed equipment and supplies. b. Monitor the area by testing with detector kits. c. Use prevention procedures such as marking contaminated areas. 3. Unit personnel conduct basic decon skills. + <ol style="list-style-type: none"> a. Individuals decontaminate their skin. b. Conduct whip down of personal equipment with M258A1 decon kit. c. Personnel conduct operator's spray-down of equipment. 4. Unit OIC/NCOIC initiates unmasking procedures and report to higher headquarters. + <ol style="list-style-type: none"> a. Ensures that casualties are provided medical care. b. Report casualties c. Submits NBC 1 report to higher headquarters. d. Continues mission or requests movement to alternate location. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	031-503-1007	DECONTAMINATE YOUR SKIN AND PERSONAL EQUIPMENT USING AN M258A1 DECONTAMINATION KIT
	031-503-1014	IDENTIFY CHEMICAL AGENTS USING M8 DETECTOR PAPER
	031-503-1015	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WITH MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
	031-503-1019	REACT TO CHEMICAL OR BIOLOGICAL HAZARD/ATTACK
	031-503-1020	DETECT CHEMICAL AGENTS USING M9 DETECTOR PAPER
	031-503-1025	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M40-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1028	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M42 PROTECTIVE MASK WITH HOOD
	031-503-1033	DECONTAMINATE YOUR SKIN USING THE M291 SKIN DECONTAMINATING KIT (SDK)
	031-503-1034	DECONTAMINATE YOUR INDIVIDUAL EQUIPMENT USING THE M295 INDIVIDUAL EQUIPMENT DECONTAMINATION KIT (IEDK)
		081-831-1000
	081-831-1030	ADMINISTER NERVE AGENT ANTIDOTE TO SELF (SELF-AID)
	081-831-1031	ADMINISTER FIRST AID TO A NERVE AGENT CASUALTY (BUDDY-AID)
STP 21-24-SMCT	031-503-2001	USE M256 OR M256A1 CHEMICAL AGENT DETECTOR KIT
	031-503-2004	PREPARE AND SUBMIT NBC 4 REPORTS
	031-503-3005	PREPARE AND SUBMIT NBC 1 REPORTS
	031-503-3008	IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE
STP 21-II-MQS	O4-5030.00-2008	Prepare and Submit Nuclear, Biological, or Chemical 1 Report
	O4-5030.00-2013	Implement Mission-Oriented Protective Posture Based on Threat or Direction

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	O4-5030.00-2020	Supervise Nuclear, Biological, or Chemical Decontamination
STP 21-I-MQS	01-5030.00-1007	Decontaminate Your Skin and Personal Equipment
	01-5700.01-0001	Communicate on a Tactical Radio
	04-8310.00-3016	Administer First Aid to a Nerve Agent Casualty (Buddy-Aid)

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PREPARE FOR A FRIENDLY NUCLEAR STRIKE (03-3-C205.06-A001)
 (FM 2104/189) (FM 3-3) (FM 3-4)
 (FM 6-20-1) (FM 6-50) (FM 6-60)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery receives a STRIKEWARN message from the operations section with specific actions to be implemented. The battery is supporting tactical operations. Battalion OPORD and the unit SOP are available. NOTE: This task is always performed in MOPP 4. This task is always performed in MOPP4.

TASK STANDARDS: Preparations for a friendly nuclear strike are completed IAW unit SOP, applicable FMs and commander's guidance.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. Battery headquarters acknowledges warning. <ul style="list-style-type: none"> a. Authenticates the call. b. Transcribes message to hard copy with 100 percent accuracy. c. Acknowledges receipt by return message. * 2. Battery commander and leaders issue warning order. + <ul style="list-style-type: none"> a. Alerts assigned and attached subelements by most expedient means. b. Relays specific directed action by land lines or messengers. 3. Battery performs preparatory actions. + <ul style="list-style-type: none"> a. Covers foxholes and shelters. b. Places all externally stored equipment inside tents or shelters, if possible. c. Places vehicles and equipment on terrain that provides shielding. d. Covers all equipment, munitions, fuel, food, and water containers. e. Dons protective mask. f. Wears designated MOPP gear to minimize skin exposure. g. Zeroes dosimeters. h. Wears individual dosimeters (selected personnel). i. Disconnects nonessential electronic equipment. j. Ties down essential antennas. k. Disassembles nonessential antennas and antenna leads. l. Improves shelters and individual positions with consideration for blast, thermal, and radiation effects. m. Secures loose flammable or explosive items and water containers. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	031-503-1005	MAINTAIN YOUR M17-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1011	MAINTAIN YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1018	REACT TO A NUCLEAR HAZARD
	031-503-1025	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION USING YOUR M40-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1028	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION USING YOUR M42 PROTECTIVE MASK WITH HOOD
STP 21-24-SMCT	031-503-2022	USE AND MAINTAIN THE AN/VDR-2 RADIAC SET
	031-503-3005	PREPARE AND SUBMIT NBC 1 REPORTS
	031-503-3006	SUPERVISE RADIATION MONITORING
	031-503-3008	IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE
	031-503-4002	SUPERVISE UNIT PREPARATION FOR NBC ATTACK
	031-503-4003	CONTROL UNIT RADIATION EXPOSURE

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PREPARE FOR NUCLEAR ATTACK (03-3-C206.06-A005)

(FM 3-4)

(STP 21-1-SMCT)

(STP 21-24-SMCT)

(STP 21-II-MQS)

(STP 21-I-MQS)

(FM 3-3)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit receives notice that a nuclear attack is probable and that the unit must implement actions to minimize casualties and damage. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The unit hardens positions and secures equipment IAW applicable FMs and commanders guidance.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The unit Commander issues warning order to subordinate elements. + 2. The unit begins defensive preparation for a nuclear attack as follows: + a. Places vehicles and equipment for best terrain shielding (hill masses, slopes, culverts, and depressions.) b. Turns off and disconnects nonessential electronic equipment IAW unit SOP. c. Ties down essential antennas. d. Takes down nonessential antennas and antenna leads IAW unit SOP or other guidance. e. Improves shelters with consideration for blast, thermal, and radiation effects. f. Zeros dosimeters. g. Secures loose, flammable, and explosive items and food and water containers. h. Personnel take cover in hardened shelters if available. i. Personnel use field expedient shelters. 3. The unit takes additional actions consistent with the tactical situation. + a. Continues periodic monitoring. b. Reports all dose rate and dosimeter readings to higher HQ.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	031-503-2004	PREPARE AND SUBMIT NBC 4 REPORTS

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	031-503-2013	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM174-SERIES RADIACMETER
	031-503-2020	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM93 OR IM147 DOSIMETER AND PP1578-SERIES CHARGER
	031-503-2022	USE AND MAINTAIN THE AN/VDR-2 RADIAC SET
	031-503-3006	SUPERVISE RADIATION MONITORING
	031-503-4002	SUPERVISE UNIT PREPARATION FOR NBC ATTACK
STP 21-II-MQS	O4-3303.02-0014	Prepare Platoon or Company Combat Orders
	O4-5030.00-2015	Supervise Radiation Monitoring
	O4-5030.00-2017	Prepare for Nuclear, Biological, or Chemical Attack
STP 21-I-MQS	01-5700.01-0001	Communicate on a Tactical Radio
	04-3303.01-0020	Prepare Squad/Platoon Combat Orders

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: CROSS A RADIOLOGICALLY CONTAMINATED AREA (03-3-C208.06-A006)
 (FM 3-3) (FM 3-4) (STP 21-1-SMCT)
 (STP 21-24-SMCT) (STP 21-II-MQS) (STP 21-I-MQS)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit receives orders to prepare for crossing a radiologically contaminated area. Approximate boundaries of the area are known or marked. This task is always performed in MOPP4.

TASK STANDARDS: The unit crosses the contaminated area by the shortest, fastest route available without receiving radiation casualties or spreading contamination IAW applicable FMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The unit OIC/NCOIC prepares for the crossing. + a. Directs individuals who may be exposed to radioactive dust particles to cover their noses and mouths with handkerchiefs or clean rags, roll sleeves down, and wear gloves. b. Receives operational exposure guidance (OEG) from commander (turn back dose/turn back dose rate). c. Ensures radiac equipment operators check instruments. 2. The unit prepares for crossing. a. Identifies extra shielding requirements (for example, vehicles use sandbags on the floor). b. Places externally stored equipment inside or covers it with available material. c. Starts continuous monitoring. 3. The unit crosses the area. + a. Avoids stirring up dust. b. Keeps out of dust cloud by increasing the intervals and distances between vehicles. c. Conducts movement as rapidly as possible (tracked vehicles should be buttoned up). 4. The unit performs operational decontamination of personnel and equipment. + a. Checks for casualties. b. Reports casualties (if applicable). c. Conducts necessary decontamination. d. Evacuates casualties. e. Continues the mission.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	031-503-1014	IDENTIFY CHEMICAL AGENTS USING M8 DETECTOR PAPER
	071-329-1005	DETERMINE A LOCATION ON THE GROUND BY TERRAIN ASSOCIATION
STP 21-24-SMCT	031-503-2013	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM174-SERIES RADIACMETER
	031-503-2020	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM93 OR IM147 DOSIMETER AND PP1578-SERIES CHARGER
	031-503-2022	USE AND MAINTAIN THE AN/VDR-2 RADIAC SET
	031-503-3004	SUPERVISE THE CROSSING OF A CONTAMINATED AREA
STP 21-II-MQS	031-503-3006	SUPERVISE RADIATION MONITORING
	031-503-4003	CONTROL UNIT RADIATION EXPOSURE
	121-030-3534	REPORT CASUALTIES
STP 21-I-MQS	O4-5030.00-2015	Supervise Radiation Monitoring
	O4-5030.00-2019	Control Unit Radiation Exposure
STP 21-I-MQS	01-5700.01-0001	Communicate on a Tactical Radio

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: RESPOND TO THE RESIDUAL EFFECTS OF A NUCLEAR ATTACK (03-3-C222.06-A007)
 (FM 3-3) (FM 3-4) (STP 21-24-SMCT)
 (STP 21-II-MQS) (FM 3-100)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is located within a predicted fallout area. The unit mission does not allow movement from the predicted fallout area. This task is always performed in MOPP4.

TASK STANDARDS: The unit takes actions to minimize exposure to residual radiation IAW applicable FMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. UNIT OIC/NCOIC prepares for fallout as follows: + <ul style="list-style-type: none"> a. Ensures individuals cover their noses and mouths with handkerchiefs or clean rags, roll their sleeves down, and wear gloves. b. Covers equipment, munitions, POL, food, and water containers, or places them inside shelters or vehicles. c. Uses shelters, closed vehicles, or available shielding to protect personnel from fallout. d. Maintains continuous monitoring by using available survey instruments. 2. Designated personnel monitor fallout. + <ul style="list-style-type: none"> a. Maintain total dose information, using available total dose rate instruments. b. Ensure exposure is minimized while Commander determines if relocation to a clean area is necessary or possible. c. Calculate optimum time of exit. d. Send NBC 4 report to higher headquarters as required, using secure means of communication. * 3. Unit leader develops a contingency plan. + <ul style="list-style-type: none"> a. Uses guidance from higher HQ, on the mission, and on previous radiation exposure. b. Plans for rotation of individuals to minimize exposure. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	031-503-2013	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM174-SERIES RADIACMETER
	031-503-2020	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM93 OR IM147 DOSIMETER AND PP1578-SERIES CHARGER
	031-503-2022	USE AND MAINTAIN THE AN/VDR-2 RADIAC SET
	031-503-3006	SUPERVISE RADIATION MONITORING
	031-503-4002	SUPERVISE UNIT PREPARATION FOR NBC ATTACK
STP 21-II-MQS	031-503-4003	CONTROL UNIT RADIATION EXPOSURE
	O4-5030.00-2015	Supervise Radiation Monitoring
	O4-5030.00-2017	Prepare for Nuclear, Biological, or Chemical Attack
	O4-5030.00-2019	Control Unit Radiation Exposure

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: RESPOND TO THE INITIAL EFFECTS OF A NUCLEAR ATTACK (03-3-C223.06-A008)
 (FM 3-4) (STP 21-1-SMCT) (STP 21-24-SMCT)
 (STP 21-II-MQS) (STP 21-I-MQS) (FM 3-100)
 (FM 3-3)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Unit personnel observe a brilliant flash of light and a mushroom shaped cloud. This task is always performed in MOPP4.

TASK STANDARDS: Unit personnel take actions to minimize the exposure to the initial effects of a nuclear detonation IAW FMs, unit TSOP and commander's guidance.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. Unit personnel take immediate protective actions in response to a nuclear attack without warning. + <ol style="list-style-type: none"> a. Close eyes immediately. b. Drop to the ground in a prone position, with head toward blast, if possible.(if in the hatch of an armored vehicle, immediately drop down inside the track. c. Keep head and face down and helmet on. d. Remain down until the blast wave passes and all debris stops falling. 2. Unit personnel take immediate protective actions in response to a nuclear attack with warning. <ol style="list-style-type: none"> a. Identify the best available shelter (foxholes/ inside shelters). b. Move to the shelter. c. Take actions to protect themselves from the blast and radiation. d. Keep clothing loosely fitted with headgear on at all times. Protect eyes and minimizes exposed skin areas. 3. Leaders reorganize the unit. + <ol style="list-style-type: none"> a. Reestablish chain of command. b. Reestablish communications. c. Submit NBC 1 (Nuclear) report to higher headquarters. d. Treat casualties. e. Evacuate casualties. f. Report casualties. g. Evaluate facilities for protection from residual radiation. h. Implement continuous monitoring. i. Submit damage assessment to higher headquarters. j. Initiate area damage control plan as required. k. Extinguishes all fires before they spread out of control. 4. Squad leaders ensures weapon systems are operational. 5. Soldiers place vehicles right side up if overturned. <ol style="list-style-type: none"> a. Check loss of coolant, fuel, and battery fluids. b. Perform operators maintenance to restore moderately damaged vehicles to combat use. 6. All personnel improve cover (if applicable). <ol style="list-style-type: none"> a. Choose dense covering material. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
b. Cover in depth. c. Provide strong support. d. Cover as much of the opening as practical.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title	
STP 21-1-SMCT	031-503-1018	REACT TO A NUCLEAR HAZARD	
	081-831-1005	PREVENT SHOCK	
	081-831-1007	GIVE FIRST AID FOR BURNS	
	081-831-1016	PUT ON A FIELD OR PRESSURE DRESSING	
	081-831-1017	PUT ON A TOURNIQUET	
	081-831-1025	APPLY A DRESSING TO AN OPEN ABDOMINAL WOUND	
	081-831-1033	APPLY A DRESSING TO AN OPEN HEAD WOUND	
	081-831-1034	SPLINT A SUSPECTED FRACTURE	
	STP 21-24-SMCT	031-503-2013	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM174-SERIES RADIACMETER
		031-503-2020	USE AND PERFORM OPERATOR MAINTENANCE ON THE IM93 OR IM147 DOSIMETER AND PP1578-SERIES CHARGER
031-503-2022		USE AND MAINTAIN THE AN/VDR-2 RADIAC SET	
031-503-3005		PREPARE AND SUBMIT NBC 1 REPORTS	
031-503-3006		SUPERVISE RADIATION MONITORING	
031-503-4003		CONTROL UNIT RADIATION EXPOSURE	
081-831-0101		REQUEST MEDICAL EVACUATION	
STP 21-II-MQS	113-573-8006	USE AN AUTOMATED SIGNAL OPERATION INSTRUCTION (SOI)	
	04-5030.00-2007	Supervise Unit Response to Nuclear Attack or Radiological Hazard	
	04-5030.00-2008	Prepare and Submit Nuclear, Biological, or Chemical 1 Report	
STP 21-I-MQS	04-5030.00-2015	Supervise Radiation Monitoring	
	01-5700.01-0001	Communicate on a Tactical Radio	
	01-5700.01-0002	Determine Call Signs, Frequencies, and Item Numbers	
	04-8310.00-3014	Give First Aid for Burns	

ARTEP 6-037-30-MTP

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: CONDUCT OPERATIONAL DECONTAMINATION (03-3-C224.06-A009)
 (FM 3-5) (STP 21-1-SMCT) (STP 21-24-SMCT)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit has conducted combat operations within an NBC contaminated area. Personnel are experiencing degraded combat effectiveness. MOPP gear is in danger of being penetrated by contamination and there is little time for planning. Time and the tactical situation permit the unit to conduct MOPP gear exchange and vehicle wash down. Site security is established. Replacement MOPP gear for each soldier, all organic equipment (such as NBC detection, decon, and marking materials; pioneer tools; communications equipment; vehicles and/or aircraft) and supplies, decon unit support, decon site and link up point locations have been established, and FM 3-5 are on hand/available. This task is always performed in MOPP4.

TASK STANDARDS: The unit decontaminates their individual gear, conducts the MOPP gear exchange (utilizing the buddy system) without sustaining additional casualties from NBC contamination. Limit the contamination transfer hazard by removing gross chemical contamination on equipment, and minimize contamination on soldiers IAW FM 3-5. Reduce radiological contamination to negligible risk levels IAW FM 3-5. Reduce chemical and biological contamination until it is safe to unmask.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. Contaminated unit's leader determines extent of contamination and establishes decontamination priorities. + <ol style="list-style-type: none"> a. Receives input from staff. b. Establishes priorities of decontamination. 2. Contaminated unit submits request for decontamination to higher headquarters. Request should, as a minimum, include: + <ol style="list-style-type: none"> a. Location of the contaminated unit. b. Location of the contaminated unit. c. Frequency and call sign of the contaminated unit. d. Time the unit became contaminated. e. Number of vehicles/equipment, by type, that are contaminated. f. Type of contamination. g. Special requirements. (patient decon station, recovery assets, unit decon team, etc.) 3. Contaminated unit coordinates with higher headquarters. <ol style="list-style-type: none"> a. Obtains permission to conduct decontamination and obtain necessary support. b. Selects link up point to meet supporting units (company supply section, Power Driven Decon Equipment crew, etc.). c. Coordinates with supporting elements. d. Requests replacement MOPP gear. e. Coordinates with the supporting elements to see if they will conduct a MOPP Gear Exchange also. f. NOTE: Vehicle Wash down portion of Operational Decon usually uses hot soapy water. 4. The contaminated unit's leader and NBC personnel select a site to conduct the operation, ensuring the site selected provides the following: + 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>a. Adequate overhead concealment, Good drainage, Easy access and exit (but off the main routes), Is near a water source large enough to support the vehicle wash down, Is large enough to accommodate elements involved in the operational decontamination (100 square meters for both Vehicle Wash down and MOPP Gear Exchange sites).</p> <p>5. Contaminated unit's Tactical Operations Center coordinates for operational decon support (battalion PDDE and crew or decon squad).</p> <p>a. Requests operational decon support.</p> <p>b. Notifies higher headquarters of the area for the operational decon.</p> <p>c. Establishes communications with the decon element.</p> <p>d. Ensures that the decon element knows the locations of the link up and the selected decon site.</p> <p>6. Contaminated unit and supporting units move to decon site. +</p> <p>a. Meet at link up point as coordinated.</p> <p>b. Contaminated unit provides security at both link up point and decon site. WARNING. SUPER TROPICAL BLEACH (STB) CAN SPONTANEOUSLY IGNITE IF MIXED WITH DECONTAMINATING SOLUTION 2 (DS2) OR BLISTER AGENT.</p> <p>7. Units prepare for Operational Decontamination. +</p> <p>a. Set up the decon site.</p> <p>(1) Supporting PDDE crew sets up Vehicle Wash down site.</p> <p>(2) Contaminated unit sets up MOPP Gear Exchange site; no less than 50 meters upwind of the Vehicle Wash down site.</p> <p>(3) The remainder of the unit prepares its equipment for decon.</p> <p>b. Actions in Pre-Decon Area.</p> <p>(1) Vehicle crews (except for operators) dismount unless they have an operational overpressure system AND an uncontaminated interior.</p> <p>(2) Dismounted crews remove mud and camouflage from vehicles. The contaminated unit must provide personnel to do this if crews do not dismount.</p> <p>(3) Separate vehicles and dismounted crews.</p> <p>(a) Ensure vehicle operators are briefed (include use of overhead cover and concealment and the proper interval).</p> <p>(b) Ensure vehicles are buttoned up (all doors, hatches, and other openings are closed or covered).</p> <p>(4) Move vehicles, with operators, to the Vehicle Wash down site.</p> <p>(5) Move dismounted crews and all other soldiers in the contaminated unit, to the MOPP Gear Exchange site.</p> <p>8. NCOIC of the decon unit supervises operation of the Vehicle Wash down site, ensuring that: NOTE: Normally the PDDE crew runs the Vehicle Wash down.</p> <p>a. Vehicle commanders maintain the proper interval between vehicles while processing through the wash down station.</p> <p>b. Vehicles are washed properly.</p> <p>(1) Start at top and work down.</p> <p>(2) Spray hot soapy water for 2 to 3 minutes per vehicle.</p> <p>(3) Monitor water consumption.</p> <p>c. Vehicles move to Assembly Area after Vehicle Wash down.</p> <p>9. Contaminated unit conducts MOPP Gear Exchange.</p> <p>a. Prepares equipment decontamination station (with STB dry mix).</p> <p>b. Briefs MOPP Gear Exchange participants on procedures to be followed.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>c. Places decontaminated individual equipment on a clean surface (plastics, poncho, or other similar material).</p> <p>d. Exchange MOPP gear.</p> <p>e. Move soldiers to the Assembly Area after completion of MOPP Gear Exchange.</p> <p>NOTE: Ensure the supporting elements have had the opportunity to use the MOPP Gear Exchange before proceeding. NOTE: The supporting PDDE crew will clean and mark the site, and report the area of contamination (using NBC 4 Report) to higher headquarters.</p> <p>10. Ensure all personnel and equipment are accounted for after the completion of the Operational Decontamination.</p> <p>11. Commander reports to higher headquarters. +</p> <p>a. Completion and location of MOPP gear exchange.</p> <p>b. Requests permission to perform unmasking procedures if, through testing, the determination has been made that no agent is present.</p> <p>c. Determines the adequacy of decontamination and adjusts MOPP level as required (after obtaining approval from higher headquarters).</p> <p>12. Continues the mission.</p>		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

“*” indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	031-503-1004	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M17-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1005	MAINTAIN YOUR M17-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1006	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WHEN DRINKING FROM YOUR CANTEEN WHILE WEARING YOUR PROTECTIVE MASK
	031-503-1007	DECONTAMINATE YOUR SKIN AND PERSONAL EQUIPMENT USING AN M258A1 DECONTAMINATION KIT
	031-503-1011	MAINTAIN YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	031-503-1012	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1014	IDENTIFY CHEMICAL AGENTS USING M8 DETECTOR PAPER
	031-503-1023	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WHEN CHANGING MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
	031-503-1024	REPLACE CANISTER ON YOUR M40-SERIES PROTECTIVE MASK
	031-503-1025	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M40-SERIES PROTECTIVE MASK WITH HOOD
	071-329-1000	Identify Topographic Symbols on a Military Map
	071-329-1001	Identify Terrain Features on a Map
	071-329-1002	Determine the Grid Coordinates of a Point on a Military Map
	071-329-1008	Measure Distance on a Map
	081-831-1031	ADMINISTER FIRST AID TO A NERVE AGENT CASUALTY (BUDDY-AID)
	551-721-1352	Perform Vehicle Preventive Maintenance Checks and Services (PMCS)
STP 21-24-SMCT	031-503-3006	SUPERVISE RADIATION MONITORING
	031-503-3009	LEAD MOPP GEAR EXCHANGE
	031-503-3010	SUPERVISE EMPLOYMENT OF NUCLEAR, BIOLOGICAL, OR CHEMICAL MARKERS
	031-507-3003	SUPERVISE HASTY DECONTAMINATION
	113-573-8006	USE AN AUTOMATED SIGNAL OPERATION INSTRUCTION (SOI)
	850-001-4001	INTEGRATE RISK MANAGEMENT IN PLATOON MISSION

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: CONDUCT CHEMICAL RECONNAISSANCE (03-3-C225.06-A010)

(FM 3-3)

(FM 3-6)

(FM 3-7)

(FM 3-8)

(STP 21-1-SMCT)

(STP 21-24-SMCT)

(STP 21-II-MQS)

(STP 21-I-MQS)

(FM 3-19)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is conducting operations in an area where chemical warfare has been initiated. The commander needs to determine the presence of chemical hazards in the area of operational concern. The reconnaissance element leader receives the mission that identifies priority areas. This task is always performed in MOPP4.

TASK STANDARDS: The reconnaissance element identifies, marks, and informs the battalion CP of the location of all chemical agents in the assigned reconnaissance area IAW unit SOP and applicable FMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. The reconnaissance element leader issues guidance to subordinate leaders. 2. The recon element leader begins preparations for the chemical reconnaissance. <ul style="list-style-type: none"> + <ol style="list-style-type: none"> a. Performs map reconnaissance of the route and specific area for reconnaissance. b. Determines reconnaissance technique to use. c. Plans for decontamination following the reconnaissance operation. (if decon is necessary). d. Coordinates for fire support e. Briefs personnel on proper reporting and recording procedures. f. Issues Operation/FRAGO to subordinate leaders. 3. Recon element prepares for chemical reconnaissance mission. <ul style="list-style-type: none"> + <ol style="list-style-type: none"> a. Prepares vehicles/equipment for chemical reconnaissance. b. Performs precombat checks on vehicles/ equipment. c. Loads chemical agent detection equipment. d. Removes all external gear/equipment not needed or required for the mission. e. Attaches M9 paper to troops and vehicles. f. Covers exposed equipment with plastic or canvas. g. Covers internal area of vehicle for team members who dismount vehicle h. Assumes appropriate MOPP level for the reconnaissance mission. i. NOTE: In order to limit MOPP degradation, MOPP analysis must be used to determine a MOPP level appropriate for tactical movement to the mission start point. The platoon reconnaissance element leader determines the point at which the element assumes MOPP4. 4. Recon element conducts the chemical reconnaissance. <ul style="list-style-type: none"> + <ol style="list-style-type: none"> a. Uses proper movement techniques (IAW METT-TC). b. Uses chemical agent detection equipment and chemical agent detection paper to locate contamination around and within the designated area. c. Maintains 25 to 100 meters between vehicles across the axis of advance, depending on the terrain. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
d. Stop vehicles at selected intervals or in areas with visual indications of a chemical attack to check for contamination. e. Checks the area for visual indications of chemical contamination: (1) Dead/dicolored vegetation (2) Discolored soil (3) Unusual liquid droplets (4) Oily film on water (5) Craters caused by bursting munitions (6) Absence of insect life (7) Dead animals/birds f. Marks contaminated area IAW OPORD/SOP instructions 5. Reconnaissance element leader submits NBC 4 chemical report of findings to higher headquarters. + 6. Reconnaissance element conducts the reconnaissance recovery operations. + a. Checks personnel and vehicles for contamination. b. Segregates contaminated personnel and equipment (if necessary). c. Coordinates for operational decontamination (if necessary). d. Moves to the preselected decontamination site(if necessary). e. Conducts operational decontamination (if necessary). f. Coordinates for reconstitution to include thorough decontamination (if applicable). 7. Reconnaissance element conducts reconnaissance recovery operations. a. Moves to the designated location or returns to higher headquarters for debriefing. b. Moves to the preselected decontamination site (if necessary).		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	031-503-1004	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/
	031-503-1005	CONTAMINATION USING YOUR M17-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1008	MAINTAIN YOUR M17-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1011	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/
		CONTAMINATION WHILE ELIMINATING BODYWASTE WHEN WEARING MOPP4
		MAINTAIN YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	031-503-1014	IDENTIFY CHEMICAL AGENTS USING M8 DETECTOR PAPER
	031-503-1015	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WITH MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
	031-503-1020	DETECT CHEMICAL AGENTS USING M9 DETECTOR PAPER
	031-503-1023	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WHEN CHANGING MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
	031-503-1025	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M40-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1028	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M42 PROTECTIVE MASK WITH HOOD
	031-503-1033	DECONTAMINATE YOUR SKIN USING THE M291 SKIN DECONTAMINATING KIT (SDK)
	031-503-1034	DECONTAMINATE YOUR INDIVIDUAL EQUIPMENT USING THE M295 INDIVIDUAL EQUIPMENT DECONTAMINATION KIT (IEDK)
	551-721-1352	Perform Vehicle Preventive Maintenance Checks and Services (PMCS)
STP 21-24-SMCT	031-503-2001	USE M256 OR M256A1 CHEMICAL AGENT DETECTOR KIT
	031-503-2004	PREPARE AND SUBMIT NBC 4 REPORTS
	031-503-3004	SUPERVISE THE CROSSING OF A CONTAMINATED AREA
	031-503-3005	PREPARE AND SUBMIT NBC 1 REPORTS
	031-503-3008	IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE
	031-503-3009	LEAD MOPP GEAR EXCHANGE
	031-503-3010	SUPERVISE EMPLOYMENT OF NUCLEAR, BIOLOGICAL, OR CHEMICAL MARKERS
	031-507-3003	SUPERVISE HASTY DECONTAMINATION
	071-326-5626	PREPARE AN ORAL OPERATION ORDER
	091-309-0710	SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES
	091-309-0710	SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES
STP 21-II-MQS	O4-3303.02-0014	Prepare Platoon or Company Combat Orders
	O4-5030.00-2013	Implement Mission-Oriented Protective Posture Based on Threat or Direction
	O4-5030.00-2020	Supervise Nuclear, Biological, or Chemical Decontamination
	O4-5030.00-2022	Supervise Employment of Nuclear, Biological, or Chemical Markers

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-I-MQS	01-5030.00-1007	Decontaminate Your Skin and Personal Equipment
	01-5700.01-0001	Communicate on a Tactical Radio
	04-3303.01-0019	Use a Map Overlay
	04-3303.01-0020	Prepare Squad/Platoon Combat Orders
	04-3303.01-0034	Navigate Using a Map and Compass

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: CROSS CHEMICALLY CONTAMINATED AREA (03-3-C226.06-A011)
 (FM 3-3) (FM 3-4) (STP 21-1-SMCT)
 (STP 21-24-SMCT) (STP 21-II-MQS) (STP 21-1-SMCT)
 (STP 21-24-SMCT) (STP 21-II-MQS) (STP 21-I-MQS)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is enroute to a new location in support of combat operations. The designated route is established and cannot be bypassed without mission degradation. The unit is directed to cross the contaminated area. This task is always performed in MOPP4.

TASK STANDARDS: The element leader selects the contaminated area crossing, supervises the crossing and determines if decontamination is required IAW applicable FMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. Element leader selects a route. + a. Uses NBC 5 (Chemical) report and/or recon reports to select a route. b. Selects route that minimizes exposure consistent with the mission. c. Obtains route clearance and approval. 2. Element prepares for crossing the area. + a. Assumes MOPP level 4 for crossing the area. b. Ensures all drivers, vehicle commanders, and leaders know route of march and/or have strip maps. c. Ensures vehicles are buttoned up (mounted movement). d. Places externally stored equipment inside or covers with available material. e. Attaches M9 detector paper to personnel and vehicles to provide warning of contamination. 3. Element crosses the area. + a. Avoids low ground, overhanging branches, and brush to the extent allowed by the tactical situation. b. Conducts dismounted movement, if necessary, as rapidly as possible. c. Crosses area as quickly and carefully as possible. 4. Element exits the contaminated area. + a. Checks for casualties. b. Reports casualties (if applicable). c. Conducts necessary decontamination. d. Continues the mission.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	031-503-1005	MAINTAIN YOUR M17-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1007	DECONTAMINATE YOUR SKIN AND PERSONAL EQUIPMENT USING AN M258A1 DECONTAMINATION KIT
	031-503-1011	MAINTAIN YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1014	IDENTIFY CHEMICAL AGENTS USING M8 DETECTOR PAPER
	031-503-1015	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WITH MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
	031-503-1020	DETECT CHEMICAL AGENTS USING M9 DETECTOR PAPER
	031-503-1023	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WHEN CHANGING MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR
	031-503-1025	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M40-SERIES PROTECTIVE MASK WITH HOOD
	031-503-1028	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M42 PROTECTIVE MASK WITH HOOD
	031-503-1033	DECONTAMINATE YOUR SKIN USING THE M291 SKIN DECONTAMINATING KIT (SDK)
	031-503-1034	DECONTAMINATE YOUR INDIVIDUAL EQUIPMENT USING THE M295 INDIVIDUAL EQUIPMENT DECONTAMINATION KIT (IEDK)
	071-326-0503	MOVE OVER, THROUGH, OR AROUND OBSTACLES (EXCEPT MINEFIELDS)
	071-329-1005	DETERMINE A LOCATION ON THE GROUND BY TERRAIN ASSOCIATION
	STP 21-24-SMCT	031-503-2001
031-503-2004		PREPARE AND SUBMIT NBC 4 REPORTS
031-503-2022		USE AND MAINTAIN THE AN/VDR-2 RADIAC SET
031-503-3004		SUPERVISE THE CROSSING OF A CONTAMINATED AREA
031-503-3006 031-503-3008		SUPERVISE RADIATION MONITORING IMPLEMENT MISSION-ORIENTED PROTECTIVE POSTURE
STP 21-II-MQS	121-030-3534	REPORT CASUALTIES
	04-5030.00-2013	Implement Mission-Oriented Protective Posture Based on Threat or Direction
STP 21-I-MQS	01-5030.00-1007	Decontaminate Your Skin and Personal Equipment

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	04-3306.01-0003	Move Over, Through, or Around Obstacles (Except Minefields)

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: REINFORCE AND RESTORE THE UNIT PERIMETER (06-2-A002)
 (FM 6-50) (FM 6-60)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is conducting combat operations. The unit is in position and has established a defensive perimeter. The perimeter has been probed by an unknown number of enemy personnel. The reaction force has been alerted and assembled at the designated position. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The unit reaction force assembles immediately when notified or when a warning signal is sounded. The reaction force NCOIC is familiar with the unit's defensive plan and rules of engagement as stated in the TSOP. The reaction force secures and restores the perimeter as required.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The reaction force NCOIC secures and restores unit perimeter as follows: a. Deploys the reaction force to proper sector using small unit infantry tactics. + b. Assesses the situation. c. Ensures the enemy force is expelled or destroyed. d. Ensures reaction force does not pursue enemy force beyond perimeter coverage. + e. Notifies BOC/POC of the situation. + 2. The reaction force reinforces battery perimeter as follows: a. Deploys to the proper sector. b. Requests additional fires in reinforced sector if required. + c. Informs NCOIC of the situation. +		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	071-311-2007	ENGAGE TARGETS WITH AN M16A1 OR M16A2 RIFLE
	071-312-3031	ENGAGE TARGETS WITH AN M60 MACHINE GUN
	071-325-4407	EMPLOY HAND GRENADES
	071-326-0502	MOVE UNDER DIRECT FIRE
	071-326-0503	MOVE OVER, THROUGH, OR AROUND OBSTACLES (EXCEPT MINEFIELDS)

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	071-326-0513	SELECT TEMPORARY FIGHTING POSITIONS
	071-326-5703	CONSTRUCT INDIVIDUAL FIGHTING POSITIONS
	071-331-0801	CHALLENGE PERSONS ENTERING YOUR AREA
	181-906-1505	CONDUCT COMBAT OPERATIONS ACCORDING TO THE LAW OF WAR
STP 21-24-SMCT	071-326-5705	ESTABLISH AN OBSERVATION POST
	071-430-0006	CONDUCT A DEFENSE BY A PLATOON

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: DEFEND AGAINST AMBUSH (06-2-A022)
(FM 6-50) (FM 6-60)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is conducting combat operations. The unit or elements from the unit are conducting a tactical road march to a new position area. Enemy ground threat is high. The unit encounters an ambush along the route of march. The ambush may be blocked or unblocked. Primary/alternate routes and rally points have been identified and reconnoitered. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The unit neutralizes the enemy or breaks contact IAW convoy commander's orders.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. (BLOCKED AMBUSH) The convoy commander signals (voice or visual) the column that they are in a blocked ambush and directs the following: + <ul style="list-style-type: none"> a. Employs maximum fires on enemy ambush force. (Cannon units consider employing howitzers in direct fire role). b. Personnel in the kill zone dismount rapidly and attack as infantry, moving out of the kill zone as quickly as possible. 2. Personnel not in the kill zone react immediately and outflank the ambushing forces.		
* 3. Convoy commander requests and controls additional fire support and reports incident to higher HQ. + NOTE: If the roadblock cannot be neutralized, the unit must disengage under cover of supporting fires. Upon disengaging, the unit should meet at a designated rally point and then resume its march by using an alternate route.		
* 4. (UNBLOCKED AMBUSH) The convoy commander signals (voice or visual) the column that they are in an unblocked ambush and directs the following: <ul style="list-style-type: none"> a. The convoy increases speed. + b. Convoy personnel place maximum amount of fires on the attackers. + 		
* 5. Convoy commander requests and controls additional fire support and reports incident to higher HQ. +		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	071-311-2007	ENGAGE TARGETS WITH AN M16A1 OR M16A2 RIFLE
	071-312-3031	ENGAGE TARGETS WITH AN M60 MACHINE GUN
	071-325-4407	EMPLOY HAND GRENADES
	071-326-0502	MOVE UNDER DIRECT FIRE
	071-326-0503	MOVE OVER, THROUGH, OR AROUND OBSTACLES (EXCEPT MINEFIELDS)
	071-326-0513	SELECT TEMPORARY FIGHTING POSITIONS
	551-721-1359	DRIVE VEHICLE IN A CONVOY
	551-721-1408	IMPLEMENT DEFENSIVE PROCEDURES WHEN UNDER ENEMY ATTACK OR AMBUSH IN A TRUCK CONVOY
STP 21-24-SMCT	071-326-3013	CONDUCT A TACTICAL ROAD MARCH
	551-721-3348	PERFORM DUTIES AS SERIAL/MARCH UNIT COMMANDER
	551-721-3352	DIRECT CONVOY DEFENSE OPERATIONS
	551-721-4326	PERFORM DUTIES AS CONVOY COMMANDER
STP 21-I-MQS	04-3305.01-0005	Engage targets with an M16A1 or M16A2 Rifle
	04-3305.01-0007	Employ Hand Grenades
	04-3305.01-0008	Engage Targets with M72A2
	04-3305.01-0009	Operate M60 Machine Gun
	04-3305.01-0010	Engage Targets with an M60 Machine Gun
	04-3305.01-0012	Operate an M249 Machine Gun
	04-3305.01-0013	Engage Targets with an M249 Machine Gun
	04-3306.01-0002	Move Under Direct Fire
04-3306.01-0003	Move Over, Through, or Around Obstacles (Except Minefields)	

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY HEADQUARTERS
 FIRING BTRY HQ
 FIRING BATTERY HEADQUARTERS
 FIRING BATTERY HQ

TASK: PERFORM RECONNAISSANCE OPERATIONS (06-2-C010)
 (FM 6-70) (ST 6-50-60) (FM 6-50)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is conducting combat operations. It must displace to provide FA fires in support of maneuver forces. The BC has received a warning order from higher HQ. The BC has received an area to reconnoiter for future operations. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: IAW higher HQ guidance, survey support and applicable FMs, the BC/advance party plans and conducts ground reconnaissance, to the new position, and selects howitzer locations within the position area.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The BC/ platoon leader reconnoiters route(s) of march to include the following:</p> <ul style="list-style-type: none"> a. Ensures prescribed vehicle intervals are maintained. b. Enforces light and noise discipline. c. Ensures party arrives at correct location. d. Verifies suitability of primary and alternate march routes as follows. <ul style="list-style-type: none"> (1) Checks cover and concealment. (2) Check location of obstacles. (3) Checks likely ambush sites. (4) Checks travel time required. (5) Check travel distance. (6) Checks for likely positions along the route to conduct emergency missions. e. Plans on call suppressive fires on likely ambush sites. <p>* 2. The BC/platoon leader selects position areas to include the following:</p> <ul style="list-style-type: none"> a. Selects position areas that enhance accomplishment of the mission as follows: <ul style="list-style-type: none"> (1) Selects primary position. (2) Selects alternate position(s). (3) Selects supplementary position(s). b. Selects position areas as follows: <ul style="list-style-type: none"> (1) Considers primary position. (2) Considers tactical situation. (3) Considers communications. (4) Considers defilade. (5) Considers trafficability. (6) Considers effects of weather. (7) Considers survey control. <p>* 3. The advance party secures and sweeps new position area as follows:</p> <ul style="list-style-type: none"> a. Maintains continuous security. b. Sweeps area designed by BC/platoon leader to ensure it is free of the following: 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>(1) Enemy forces. (2) Booby traps. (3) Mines (4) NBC hazards.</p> <p>NOTE: If the above conditions exist in the proposed position area, the advance party breaks contact with the enemy forces or marks minefields and hazards and moves on to find another position area.</p> <p>c. Conceals advance party vehicles by doing the following: (1) Disperses vehicles. (2) Places vehicles under cover. (3) Uses existing roads or paths.</p> <p>d. Establishes perimeter.</p> <p>* 4. The gunnery sergeant organizes the battery position area as follows: a. Organizes forward position areas to enhance survivability and mission accomplishment. b. Selects howitzer position. c. Assigns howitzer position numbers. d. Positions howitzer sections, taking advantage of cover and concealment and considering target-area effects.</p> <p>NOTE: Position should have firm ground, good drainage, cover, and concealment. It should provide adequate room for dispersion of vehicles. If terrain permits, vehicles should be a minimum of 50 meters apart.</p> <p>e. Designates traffic patterns to include the following: (1) Primary entrance and exit. (2) Emergency entrance and exit. (3) Helicopter landing zone.</p> <p>NOTE: During limited-time preparation, duties of the advance should be as decentralized as possible.</p> <p>5. The gunnery sergeant prepares a new position for occupation as follows: a. Sets up and orients the GLPS or aiming circle. b. Gives each gun guide the azimuth of fire. c. Determines and records the initial deflection to each howitzer. d. Ensures gun guides emplace pantle marking stake and records initial deflection from the aiming circle. e. Determines distance and vertical angle from the howitzer to the aiming circle and records it. f. Gives initial data to the FDC representative. g. Ensures gun guide obtains site to crest and piece to creat. h. Determines XO's min QE for the lowest preferred charge the unit expects to fire in teh position.</p> <p>NOTE: Add 20 mil safety factor to allow for accuracy of the M2 compass. i. Determines and records alternate aiming points. j. Designates and briefs guides on track plan for each vehicle. k. Establishes wire communications. l. Maintains position security.</p> <p>6. The FDC representative establishes fire direction capability.</p>		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
No STP and No MOS	01-2660.00-0082	Conduct the Reconnaissance of a Firing Unit Position Area
STP 21-1-SMCT	071-329-1000	Identify Topographic Symbols on a Military Map
	071-329-1001	Identify Terrain Features on a Map
	071-329-1002	Determine the Grid Coordinates of a Point on a Military Map
STP 21-24-SMCT	051-196-3065	PREPARE A ROUTE RECONNAISSANCE OVERLAY
	071-326-3013	CONDUCT A TACTICAL ROAD MARCH
STP 6-13B14-SM-TG	071-329-1030	Navigate From One Point on the Ground to Another Point, Mounted
STP 6-13B1-SM	071-329-1004	Determine the Elevation of a Point on the Ground Using a Map

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY
 BATTERY HEADQUARTERS
 2 FIRING PLATOON HQ
 FIRING PLATOON HEADQUARTERS

TASK: PLAN AND CONDUCT DEFENSE AND SECURITY OF THE BATTERY/PLATOON AREA AND MATERIAL (06-3-A000)
 (FM 6-50) (FM 6-60)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is conducting combat operations. The enemy has the capability to attack by air, ground, or indirect fire. The unit has identified reaction teams and other special teams associated with defensive operations. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: BC/platoon leader plan(s), coordinates, and controls the establishment of the defense IAW TSOP, OPSEC, METT-TC and supporting FMs and TMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. BC/platoon leader plans the defense, while considering: Use of terrain, Defense in depth, Security, Priorities, Defense in all directions, Mutual support, Control and flexibility, Use of terrain. + * 2. BC/platoon leader plans, coordinates, and controls the establishment of the defense as follows: <ul style="list-style-type: none"> a. Analyzes the intelligence preparation of the battlefield (IPB). b. Develops an overall defense plan. c. Develops engagement areas based on avenues of approach. d. Conducts a terrain analysis of the position area and surrounding terrain to determine from where the enemy will attack. e. Establishes time line and defense priorities. f. Briefs key personnel on how he intends to defend the area. g. Designates personnel to destroy material IAW applicable TMs and ARs. h. Ensures adequate ED materials are available. i. Coordinates with adjacent maneuver forces for early warning of enemy attacks. * 3. The battery/platoon establishes a defense plan. The BC/platoon leader ensures the following: + <ul style="list-style-type: none"> a. Ensures use of all available resources (for example foliage and camouflage nets) to hide the unit from observation. b. Ensures unit personnel recognize warning signals and are familiar with the OPSEC portion of the TSOP. c. Ensures proper siting of electronic equipment to reduce signature. d. Disperses unit vehicles and sections to lessen vulnerability to attack. e. Determines locations for crew served weapons, antitank weapons, and OPs and LPs. f. OPs and LPs are occupied to provide early warning; ensures OPs and LPs have communications. Assign sectors of fire. g. Ensures enemy intrusions or observations are reported. h. Plans emplacement of obstacles. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>i. Prepares defense diagram depicting azimuths of fire for automatic weapons, final protective lines (FPLs), dead space, locations of antipersonnel mines, location of M8 alarms, locations of OPs and LPs, and locations of defense targets. Copy of diagram is forwarded to higher HQ.</p> <p>j. Coordinates additional fire support from adjacent units.</p> <p>k. Prevents unauthorized vehicles and personnel from entry into area.</p> <p>l. Positions crew served weapons to provide maximum effect.</p> <p>m. Conducts support operations to minimize the opportunity for detection.</p> <p>n. Keeps vehicle movement to a minimum in the main area. Track control procedures should prevent unusual traffic patterns.</p> <p>o. Maintains communications discipline. Uses lowest power setting level without reducing mission requirements.</p> <p>p. Rehearses the reaction force</p> <p>q. Establishes anti-armor teams.</p> <p>r. Ensures section chiefs prepare range cards for their respective weapons.</p> <p>s. Ensures section chiefs know location of and routes to alternate position. Establishes rally points.</p> <p>t. Coordinates with adjacent units for security assistance.</p> <p>4. Battery/platoon defends against ground attack (stationary) as follows. + NOTE: Merely sighting the enemy should not force the battery/platoon to disclose its position.</p> <p>a. Perimeter guards notify BOC/POC of approaching enemy.</p> <p>b. Cannon units employ howitzers in the direct fire mode.</p> <p>c. 1SG/platoon SGT deploys the reaction force to reinforce and restore the perimeter.</p> <p>d. BC/platoon leader notifies higher HQ.</p> <p>e. BC/platoon leader reports damage assessment and personnel losses as required.</p> <p>5. Battery/platoon defends against armored/mechanized attack as follows: Preferred defense against an armored/mechanized ground attack is for the unit to move. However, in some circumstances fighting an armored/mechanized ground force may be unavoidable. The following standards apply when an OPFOR armored threat is observed approaching the battery/platoon.</p> <p>a. BC/platoon leader requests permission to move.</p> <p>b. 1SG/platoon SGT employs armor-killer teams outside the unit area to attack tanks as early as feasible.</p> <p>c. Cannon units move howitzer to a supplementary position to engage armor.</p> <p>d. BC/platoon leader notifies higher HQ.</p> <p>Only under extreme circumstances should a battery/platoon engage enemy armor. First priority should be to displace to an alternate position.</p> <p>6. Battery/platoon defends area against an air attack (stationary) as follows: +</p> <p>a. BC/platoon leader briefs unit personnel on enemy situation and warns of possible air attack.</p> <p>b. Personnel sound air attack alarm if enemy aircraft are identified in vicinity of position.</p> <p>d. BC/platoon leader notifies higher HQ of situation and number and type of aircraft.</p> <p>e. BC/platoon leader reports damage assessment and personnel losses as required.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>NOTE: The battery/platoon is receiving indirect fire. The battery/platoon may receive either of two immediate action status messages--stay in position or move to alternate position. Appropriate actions must be taken depending on status received and nature and extent of indirect fires received.</p> <p>7. Battery/platoon implements stay in position immediate action status as follows: +</p> <ul style="list-style-type: none"> a. Section chiefs harden positions (sandbagging, digging in, etc.) when possible. b. Continues providing fire support from current position. c. BC/platoon leader notifies higher HQ of the attack. c. BC/platoon leader ensures vehicles, equipment, and personnel are dispersed and in protective positions. Use concentrated small arms fire to provide air defense. d. Medics and combat lifesavers treat and evacuate casualties as soon as possible. e. Crater Analysis Team conducts crater analysis and submits shelling reports (SHELREPs) to higher HQ as soon as possible after attack. f. BC/platoon leader inspects the alternate position(s) for indirect fire damage. <p>NOTE: In the conduct of a hasty displacement, survival and continued ability to accomplish the unit mission are in balance. Consequently, all efforts must be directed toward quickly displacing. Items such as tentage, camouflage nets, and wire are left in position and recovered when the hostile fire ceases.</p> <p>8. The battery/platoon implements move to alternate position immediate action status as follows: +</p> <ul style="list-style-type: none"> a. BC/platoon leader issues the order (visual or vocal) to move to the alternate position. b. Battery/platoon displaces all elements within the time allotted in the unit SOP. <p>Time starts when order is given, Time stops when last element is moving.</p> <ul style="list-style-type: none"> c. BC/platoon leader maintains communications with higher HQ. d. BC reports shelling and requests immediate counterfire. <p>* 9. BC/platoon leader reorganizes after an attack as follows:</p> <ul style="list-style-type: none"> a. Reorganizes as quickly as possible to enable the mission to continue. b. Reestablishes a perimeter defense and security measures. c. Evacuates or treats casualties as required. d. Assessed damage to equipment and supplies. e. Adjusts loads to accommodate for vehicle losses. f. Notifies higher HQ of situation. <p>10. The battery/platoon defends and secures unit equipment and material against enemy use as follows:</p> <ul style="list-style-type: none"> a. BC/platoon leader issues orders for destruction. b. Destroys by priority IAW TSOP. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	071-311-2007	ENGAGE TARGETS WITH AN M16A1 OR M16A2 RIFLE
	071-311-2027	LOAD AN M16A1 OR M16A2 RIFLE
	071-312-3003	LAY AN M60 MACHINE GUN USING FIELD EXPEDIENTS
	071-312-3007	PREPARE A RANGE CARD FOR AN M60 MACHINE GUN
	071-312-3027	LOAD AN M60 MACHINE GUN
	071-312-3031	ENGAGE TARGETS WITH AN M60 MACHINE GUN
	071-325-4425	EMPLOY AN M18A1 CLAYMORE MINE
	071-326-0513	SELECT TEMPORARY FIGHTING POSITIONS
	071-331-0801	CHALLENGE PERSONS ENTERING YOUR AREA
	071-331-0804	PERFORM SURVEILLANCE WITHOUT THE AID OF ELECTRONIC DEVICES
	071-331-0815	PRACTICE NOISE, LIGHT, AND LITTER DISCIPLINE
	071-331-0852	CLEAR A FIELD OF FIRE
	181-906-1505	CONDUCT COMBAT OPERATIONS ACCORDING TO THE LAW OF WAR
	551-721-1408	IMPLEMENT DEFENSIVE PROCEDURES WHEN UNDER ENEMY ATTACK OR AMBUSH IN A TRUCK CONVOY
STP 21-24-SMCT	071-326-5705	ESTABLISH AN OBSERVATION POST
	071-326-5770	PREPARE A PLATOON SECTOR SKETCH
	071-326-5775	COORDINATE WITH AN ADJACENT PLATOON
	071-329-1019	USE A MAP OVERLAY
	081-831-0101	REQUEST MEDICAL EVACUATION
STP 21-I-MQS	441-091-1040	VISUALLY IDENTIFY THREAT AIRCRAFT
	441-091-3001	DIRECT UNIT AIR DEFENSE
	01-5700.01-0001	Communicate on a Tactical Radio
	04-3301.01-0013	Defend a Squad/Platoon Position
	04-3303.01-0019	Use a Map Overlay
	04-3305.01-0005	Engage targets with an M16A1 or M16A2 Rifle
	04-3305.01-0006	Employ M18A1 Claymore
	04-3305.01-0009	Operate M60 Machine Gun
	04-3305.01-0010	Engage Targets with an M60 Machine Gun
	04-3305.01-0011	Prepare a Range Card for an M60 Machine Gun
STP 6-13B1-SM	04-3305.01-0012	Operate an M249 Machine Gun
	04-3305.01-0013	Engage Targets with an M249 Machine Gun
	04-3306.01-0006	Use Challenge and Password
	04-3301.02-0012	Defend a Platoon Position
	071-022-0003	Operate a Caliber .50 M2 Machine Gun
	071-312-3004	Construct a Fighting Position for an M60 Machine Gun
	071-313-3455	Set Headspace and Timing on a Caliber .50 Machine Gun
STP 6-13B24-SM-TG	061-306-6004	Perform Crater and Shell Fragment Analysis

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-306-6005	Prepare and/or Submit Standard Shelling, Mortaring, and Bombing Report
STP 92Y1-SM	101-521-1163	Prepare and Maintain a Document Register

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PERFORM ANTIARMOR OPERATIONS (06-5-A002)
 (FM 6-50) (FM 6-60)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is conducting combat operations. Enemy forces in the area of operations have a significant armor capability. The battery has been issued anti-armor weapons and anti-armor mines. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: BC/1SG identifies team members to conduct armor killer operations and ensures anti-armor defenses are established.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. BC/1SG selects anti-armor weapon positions and kill zones as follows: + <ul style="list-style-type: none"> a. Locates kill zones and anti-armor positions outside the battery area. b. Selects kill zones within optimum range of anti-armor weapons. c. Provides for flanking fires on armor avenues of approach. d. Ensures positions provide a covered and concealed entrance and exit. e. Selects a series of positions to allow team to move after firing. 2. Armor killer teams acquire and engage enemy as follows: <ul style="list-style-type: none"> a. Maintain continuous observation of the assigned sector by using overall search and overlapping 50-meter search techniques. b. Detect potential targets entering the assigned sector. c. Identify approaching targets as friend or foe. d. Report to the battery by using size, activity, location, unit, time, and equipment (SALUTE) e. Engage enemy armor continuously by alternate firing and mutual support. Fire only once from each position. Fire weapons in pairs and in sequence to improve probability of kill. f. Report if displacement is required. g. Cover withdrawal with smoke, if required. h. Move along previously reconnoitered routes. i. Ensure the withdrawal does not lead the enemy to the alternate or battery position. j. Provide the battery with a SITREP upon occupying an alternate position or returning to the battery. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

“*” indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	071-311-2007	ENGAGE TARGETS WITH AN M16A1 OR M16A2 RIFLE
	071-311-2027	LOAD AN M16A1 OR M16A2 RIFLE
	071-311-2029	CORRECT MALFUNCTIONS OF AN M16A1 OR M16A2 RIFLE
	071-325-4407	EMPLOY HAND GRENADES
	071-326-5703	CONSTRUCT INDIVIDUAL FIGHTING POSITIONS
	071-331-0815	PRACTICE NOISE, LIGHT, AND LITTER DISCIPLINE
STP 21-24-SMCT	071-331-0852	CLEAR A FIELD OF FIRE
	061-283-6003	ADJUST INDIRECT FIRE

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PERFORM DESTRUCTION OF MATERIAL AND RECORDS (06-5-A003)
 (FM 5-250) (FM 6-50) (FM 9-13)
 (TB 380-41 (O))

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery has received orders from higher HQ to destroy equipment and materiel. High explosives, detonation cord, fuses, and an ED kit are available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Documents and equipment are destroyed IAW the priorities established in the TSOP and STANAG 2113. The unit uses any means necessary to perform the destruction.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>1. Battery performs destruction of tactical wheeled vehicles as follows: +</p> <ul style="list-style-type: none"> a. Smashes all vital components with axes and hammers, and slashes vehicles tires. b. Drains the engine oil and coolant, and runs the engine at full throttle until it seizes. c. Removes fuel tank drain plug. d. Pours oil/fuel over entire vehicle, and ignites vehicle from a safe distance with an incendiary grenade or by other means. <p>2. Battery performs destruction of weapons and track vehicles as follows: +</p> <ul style="list-style-type: none"> a. Removes or drains fire extinguishers. b. Smashes all vital components with axes and hammers. c. Renders weapon systems useless by destroying key operating components. d. Uses demolition charges to destroy equipment and ammunition. <ul style="list-style-type: none"> (1) Places charges on ammunition. (2) Determines safe distance when firing explosives. (3) Constructs detonating cord systems (line/ring/main). (4) Primes explosives nonelectrically. (5) Constructs a nonelectrical initiating/detonating assembly. (6) Installs dual firing systems. <p>3. Battery performs destruction of records. Shreds or burns all documents and records. +</p> <p>4. Battery performs destruction of communications-electronics (C-E) material and records. The team performs the following: +</p> <ul style="list-style-type: none"> a. Destroys keying material IAW (C)TB 380-41 before destruction of other classified documents and material or equal classification. b. Ensures material is destroyed in the proper order. c. Ensures destruction of the most sensitive material rather than partial destruction of all the material. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	113-573-0002	CONDUCT OPERATIONS SECURITY (OPSEC) PROCEDURES
STP 6-13M14-SM-TG	061-310-8002	Perform Emergency Destruction Procedures on MLRS Ammunition
	061-310-8009	Perform Hangfire Procedures on the M270
	061-310-8014	Implement Emergency Destruction of MLRS Ammunition
STP 6-13P14-SM-TG	061-310-8015	Direct Hangfire Procedures on the M270
	061-287-5023	Advice Supported Unit of MLRS Capabilities and Limitations.
	061-287-5024	Disseminate Fire Support Information to Lower, and Higher Field Artillery Elements.

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: TREAT CASUALTIES (08-2-0003.06-A001)

(FM 21-11)

(STP 21-1-SMCT)

(STP 21-24-SMCT)

(STP 21-I-MQS)

(STP 8-91B15-SM-TG)

(AR 600-8-1)

(FM 3-4)

(FM 3-5)

(FM 8-10-6)

(FM 8-230)

(FM 8-285)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit has sustained casualties. The unit has no organic medical treatment personnel. Threat force contact has been broken. Soldiers are wounded and may have chemical contamination or non-battle injuries. Some unit members are assigned the additional duty of combat lifesavers. Unit members are performing first aid (self-aid/buddy aid) treatment and combat lifesavers are providing enhanced first aid treatment until medical treatment personnel arrive. This task is performed simultaneously with other reorganization tasks. Higher HQ TSOP and OPORD are available. SCPE is on hand and/or field expedient and natural shelters are available. NOTE: This task should not be trained in MOPP4 except when treating NBC casualties. Some iterations of this task should be performed in MOPP4. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Unit members provide first aid treatment for casualties IAW commander's treatment plan, FM 21-11, FM 8-285, and combat lifesaver certification standards. At MOPP level 4, performance degradation factors increase the time required to provide treatment and limits the type of treatment provided.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. Commander and leaders supervise first aid treatment of casualties.</p> <ul style="list-style-type: none"> a. Develops treatment plan. b. Monitors treatment for compliance with FM 21-11 and ensures all casualties are treated. c. Directs employment of combat lifesavers to treat casualties. d. Reports casualties, as required. e. Coordinates replenishment of class VIII supplies IAW TSOP. f. Directs distribution of class VIII supplies and equipment IAW TSOP. g. Enforces quality control procedures for class VIII items. <p>2. Unit personnel survey casualties. +</p> <ul style="list-style-type: none"> a. Check for responsiveness. b. Check for breathing. c. Check for bleeding. d. Check for head injury. e. Check for shock. f. Check for fractures to include cervical spine and back fractures. g. Check for burns. <p>3. Unit personnel administer lifesaving first aid treatment. +</p> <ul style="list-style-type: none"> a. Clear all objects from throat of casualty. b. Use jaw thrust method to open airway if cervical spine injury is suspected. c. Perform mouth-to-mouth resuscitation to restore casualty's breathing IAW CPR procedures. <p>4. Unit personnel control hemorrhaging.</p> <ul style="list-style-type: none"> a. Apply manual direct pressure to wound. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> b. Elevate extremities. c. Apply pressure dressing to wound. d. Apply dressing and bandages. e. Apply tourniquet as last resort. <p>5. Unit personnel dress wounds.</p> <ul style="list-style-type: none"> a. Apply occlusive dressing to an open chest wound, if possible. b. Apply dressing to open abdominal wound. c. Apply dressing to open head wound. <p>6. Unit personnel splint suspected fractures.</p> <ul style="list-style-type: none"> a. Employ available materials to splint injury. b. Splint fractures in position found. c. Restrict movement of extremities. d. Check circulation for impairment. <p>7. Unit personnel provide first aid treatment to casualties with burns.</p> <ul style="list-style-type: none"> a. Extinguish thermal burn agents. b. Remove chemical burn agents. c. Eliminate electrical burn source. d. Uncover burn unless stuck to clothing or a chemical environment exists. e. Apply field dressing, if appropriate. <p>8. Unit personnel provide first aid treatment for environmental injuries. +</p> <ul style="list-style-type: none"> a. Administer first aid for heat injuries. b. Administer first aid for frostbite. <p>9. Unit personnel provide first aid treatment for chemical casualties.</p> <ul style="list-style-type: none"> a. Take immediate protective steps to protect self and warn others IAW FM 8-285. b. Protect casualty from further contamination. c. Administer nerve agent antidote IAW FM 21-11 and FM 8-285. d. Decontaminate casualty IAW FM 3-5, if necessary. e. Administer CANA, if required. <p>10. Unit personnel prevent shock.</p> <ul style="list-style-type: none"> a. Position casualty in the correct anti-shock position IAW FM 21-11. b. Loosen clothing and equipment. c. Prevent casualty from chilling or overheating. d. Calm casualty by reassuring him. <p>11. Combat lifesavers perform enhanced first aid treatment. +</p> <ul style="list-style-type: none"> a. Evaluate a casualty for condition and type treatment needed. b. Measure casualty's vital signs. c. Insert oropharyngeal airway in an unconscious casualty. d. Apply a splint to a fractured limb. e. Administer first aid to chemical agent casualties. f. Initiate an intravenous infusion for hypovolemic shock. g. Identify environmental injuries. h. Treat environmental injuries. i. Manage battle fatigue casualties. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	081-831-1000	EVALUATE A CASUALTY
	081-831-1003	CLEAR AN OBJECT FROM THE THROAT OF A CONSCIOUS CASUALTY
	081-831-1005	PREVENT SHOCK
	081-831-1007	GIVE FIRST AID FOR BURNS
	081-831-1008	GIVE FIRST AID FOR HEAT INJURIES
	081-831-1009	GIVE FIRST AID FOR FROSTBITE
	081-831-1016	PUT ON A FIELD OR PRESSURE DRESSING
	081-831-1017	PUT ON A TOURNIQUET
	081-831-1025	APPLY A DRESSING TO AN OPEN ABDOMINAL WOUND
	081-831-1026	APPLY A DRESSING TO AN OPEN CHEST WOUND
	081-831-1031	ADMINISTER FIRST AID TO A NERVE AGENT CASUALTY (BUDDY-AID)
	081-831-1033	APPLY A DRESSING TO AN OPEN HEAD WOUND
	081-831-1034	SPLINT A SUSPECTED FRACTURE
	081-831-1042	PERFORM MOUTH-TO-MOUTH RESUSCITATION
STP 21-I-MQS	04-8310.00-3007	Evaluate a Casualty
	04-8310.00-3008	Clear an Object from the Throat of a Conscious Casualty
	04-8310.00-3009	Perform Mouth-to-Mouth Resuscitation
	04-8310.00-3010	Put on a Field or Pressure Dressing
	04-8310.00-3011	Put on a Tourniquet
	04-8310.00-3012	Prevent Shock
	04-8310.00-3013	Splint a Suspected Fracture
	04-8310.00-3014	Give First Aid for Burns
	04-8310.00-3016	Administer First Aid to a Nerve Agent Casualty (Buddy-Aid)
	04-8310.00-3018	Give First Aid for Frostbite
04-8310.00-3020	Give First Aid for Heat Injuries	
04-8310.00-3024	Apply a Dressing to an Open Chest Wound	
04-8310.00-3025	Apply a Dressing to an Open Head Wound	
04-8310.00-3026	Apply a Dressing to an Open Abdominal Wound	
STP 8-91B15-SM-TG	081-831-0010	MEASURE A PATIENT'S RESPIRATIONS
	081-831-0011	MEASURE A PATIENT'S PULSE
	081-831-0012	MEASURE A PATIENT'S BLOOD PRESSURE
	081-831-0013	MEASURE A PATIENT'S TEMPERATURE
	081-831-0033	INITIATE A FIELD MEDICAL CARD
	081-831-0038	TREAT A CASUALTY FOR A HEAT INJURY

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	081-831-0039	TREAT A CASUALTY FOR A COLD INJURY
	081-833-0015	SURVEY A CASUALTY

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: TRANSPORT CASUALTIES (08-2-C316.06-A006)

(FM 8-10-6)

(STP 21-1-SMCT)

(STP 21-24-SMCT)

(STP 21-II-MQS)

(STP 21-I-MQS)

(AR 600-8-1)

(FM 100-5)

(FM 12-6)

(FM 21-11)

(FM 3-4)

(FM 3-5)

(FM 57-38)

(FM 8-285)

(FM 8-55)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Unit personnel are wounded and some may be chemically contaminated. Threat force contact has been broken. Unit defenses have been reorganized. Casualties are transported from defensive positions to designated casualty collection points. All methods of transport are employed. Some wounded EPW casualties may require transport. This task is performed simultaneously with other reorganization tasks. The TSOP and higher HQ OPORD are available. SCPE is on hand and/or field expedient and natural shelters are available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Casualties are transported as soon as tactical situation permits IAW the TSOP, OPORD, the provisions of the Geneva Conventions, and FM 8-10-6. At MOPP level 4, performance degradation factors increases the time required to transport casualties.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. Commander and leaders supervise transport of casualties.</p> <ul style="list-style-type: none"> a. Identifies casualty collection points. b. Identifies evacuation requirements. c. Supervises preparation of casualties for evacuation. d. Coordinates evacuation of casualties from the unit area with higher HQ staff element IAW TSOP and FM 8-10-6. e. Coordinates security requirements for the pickup site with the supporting unit and/or higher HQ staff element. f. Disseminates evacuation information to battery/platoon personnel. g. Forwards casualty feeder report and witness statements to the supporting unit and/or higher HQ staff element.. <p>2. Unit personnel prepare casualties for evacuation. +</p> <p>NOTE: See task 8-2-003 for detailed treatment procedures.</p> <ul style="list-style-type: none"> a. Treat casualties. b. Report casualties as required. c. Collect classified documents such as SOI/SSI, maps, overlays, and key lists. d. Secure custody of organizational equipment IAW the TSOP. e. Forward casualty feeder reports to unit HQ (BC/platoon leader). <p>3. Personnel transport casualties to casualty collection points by using manual carries.</p> <ul style="list-style-type: none"> a. Select type of manual carry appropriate to situation and injury. b. Transport casualty without causing further injury. <p>4. Unit personnel transport casualties to casualty collection points using litter carries.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> a. Identify litter teams. b. Construct improvised litter from available material as required. c. Secure casualty on litter. d. Transport casualty without causing further injury. <p>5. Unit personnel transport casualties to an MTF using available vehicles.</p> <ul style="list-style-type: none"> a. Load maximum number of casualties IAW FM 8-10-6. b. Secure casualties in vehicle. c. Transport casualties without causing further injury. <p>* 6. Commander and leaders request aeromedical evacuation. +</p> <ul style="list-style-type: none"> a. Transmits request IAW OPORD, TSOP, and FM 8-10-6. b. Selects landing site which provides sufficient space for helicopter hover, landing, and takeoff IAW FM 8-10-6 and FM 57-38. c. Supervises removal of all dangerous objects likely to be blown about prior to aircraft arrival. d. Supervises security of landing site IAW the TSOP. <p>7. Unit personnel assist in loading ambulance.</p> <ul style="list-style-type: none"> a. Employ proper carrying and loading techniques. b. Load casualties in the sequence directed by the crew. c. Load casualties without causing unnecessary discomfort. d. Employ all safety procedures IAW AR 385-10 and TSOP. e. Employ safety environmental stewardship procedures. <p>8. Unit personnel evacuate chemically contaminated casualties. +</p> <ul style="list-style-type: none"> a. Assume MOPP4. b. Mark contaminated casualties IAW the TSOP. c. Notify supporting MFT that contaminated casualties are en route to their location. d. Transport casualties directly to a designated decontamination and treatment station. e. Protect casualties from further contamination during transport. <p>9. Unit personnel transport EPW casualties.</p> <ul style="list-style-type: none"> a. Maintain security of EPW casualties IAW the TSOP. b. Search EPW casualties for weapons and ordnance prior to evacuation. c. Transport EPW casualties IAW the provisions of the Geneva Convention and the TSOP. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title	
STP 21-1-SMCT	031-503-1004	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION USING YOUR M17-SERIES PROTECTIVE MASK WITH HOOD	
	031-503-1007	DECONTAMINATE YOUR SKIN AND PERSONAL EQUIPMENT USING AN M258A1 DECONTAMINATION KIT	
	031-503-1012	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/CONTAMINATION USING YOUR M24 OR M25-SERIES PROTECTIVE MASK WITH HOOD	
	031-503-1015	PROTECT YOURSELF FROM NBC INJURY/CONTAMINATION WITH MISSION-ORIENTED PROTECTIVE POSTURE (MOPP) GEAR	
	031-503-1025	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION USING YOUR M40-SERIES PROTECTIVE MASK WITH HOOD	
	031-503-1028	PROTECT YOURSELF FROM CHEMICAL AND BIOLOGICAL INJURY/ CONTAMINATION USING YOUR M42 PROTECTIVE MASK WITH HOOD	
	081-831-1040	TRANSPORT A CASUALTY USING A ONE-MAN CARRY	
	081-831-1041	TRANSPORT A CASUALTY USING A TWO-MAN CARRY OR AN IMPROVISED LITTER	
	STP 21-24-SMCT	081-831-0101	REQUEST MEDICAL EVACUATION
	STP 21-I-MQS	121-030-3534	REPORT CASUALTIES
01-5030.00-1004		Use Your M17-Series Protective Mask with Hood	
04-8310.00-3016		Administer First Aid to a Nerve Agent Casualty (Buddy-Aid)	
04-8310.00-3027		Transport a Casualty Using a One-Man Carry	
	04-8310.00-3028	Transport a Casualty Using a Two-Man Carry or an Improvised Litter	

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PERFORM FIELD SANITATION FUNCTIONS (08-2-R315.06-A007)
 (FM 21-10) (STP 21-24-SMCT) (STP 21-II-MQS)
 (AR 385-10) (AR 40-5) (FM 10-52)
 (FM 21-10-1) (FM 3-4) (FM 3-5)
 (FM 8-10)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Health hazards exist, which require field sanitation measures. The unit is in the field without permanent sanitation or water facilities. The commander has selected and trained the unit FST. The CHS plan, TSOP, and higher HQ OPOrd are available. All required sanitation equipment is available. Field sanitation measures are continuous and are performed simultaneously with other operational tasks. SCPE is on hand and/or field expedient and natural shelters are available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Field sanitation measures are accomplished IAW the TSOP, OPOrd, and FM 21-10. FST performs field sanitation measures IAW the TSOP, FM 21-10, and commander's guidance. At MOPP level 4, only minimum essential field sanitation activities are performed.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. Commander directs field sanitation measures. <ul style="list-style-type: none"> a. Directs field sanitation activities to counter the health threat. b. Monitors field sanitation activities for compliance with TSOP and FM 21-10. c. Enforces individual field sanitation measures. d. Requests assistance from supporting preventive medicine element for sanitation problems that are beyond the expertise of the unit's FST IAW the TSOP and OPOrd. e. Corrects field sanitation deficiencies. f. Reports field sanitation deficiencies which cannot be corrected by unit personnel to the FST. g. Enforces safety procedures IAW AR 385-10, the TSOP, and commander's guidance. h. Enforces safety environmental stewardship procedures. 2. FST supervises unit field sanitation activities. <ul style="list-style-type: none"> a. Maintains field sanitation basic load IAW AR 40-5 and FM 21-10-1. b. Supervises distribution of field sanitation basic load items IAW AR 40-5 and FM 21-10-1. c. Tests unit water supply for required chlorine residual level IAW FM 21-10-1 and the TSOP. d. Monitors personnel to ensure use of personal protective measures against arthropods (skin, clothing, and bed net repellent) and rodents IAW applicable directives and commander's guidance. e. Conducts rodent surveys, as required. f. Monitors personnel for employment of correct hygiene measures. g. Monitors waste facilities and procedures for compliance with AR 40-5, FM 21-10-1, and the TSOP, as required. h. Inspects latrines and urinals IAW FM 21-10-1 and the TSOP. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> i. Inspects liquid and solid waste disposal facilities to ensure compliance with AR 40-5, FM 21-10-1, and the TSOP. j. Inspects hand washing devices IAW FM 21-10-1 and the TSOP. k. Inspects transport, storage, preparation, and service of food for compliance with FM 21-10-1 and the TSOP. l. Provide advice, recommendations, and training requirements to the commander. m. Enforces safety procedures IAW 385-10, the TSOP, and the commander's guidance. n. Enforces safety environmental stewardship procedures. <p>3. Unit elements employ field sanitation measures. +</p> <ul style="list-style-type: none"> a. Maintain prescribed load of water purification materials IAW AR 40-5, FM 21-10, and the TSOP. b. Prepare non potable water for personal use IAW FM 21-10 and the TSOP. c. Consume only water designated as potable. d. Maintain latrines and hand washing facilities IAW FM 21-10 and the TSOP. e. Employ preventive measures against cold and heat injuries. f. Employ personal hygiene measures. g. Employ preventive measures against arthropod and rodent infestation, to include using skin, clothing, and bed net repellent. h. Employ safety procedures IAW AR 385-10, the TSOP, and commander's guidance. i. Employ safety environmental stewardship procedures. j. Report field sanitation deficiencies to the FST. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	081-831-0102	SUPERVISE UNIT PREVENTIVE MEDICINE AND FIELD SANITATION PROCEDURES
	850-001-4001	INTEGRATE RISK MANAGEMENT IN PLATOON MISSION
STP 21-II-MQS	04-8310.00-3019	Protect Yourself Against Heat
	03-8310.00-9000	Supervise Unit Preventive Medicine and Field Sanitation Procedures
	03-9003.03-0001	Supervise the Management of Accident Risk in Unit Operations
STP 21-I-MQS	03-8310.00-3021	Protect Yourself Against Biting Insects
	03-8310.00-3022	Protect Yourself Against Diarrhea and Dysentery
	03-8310.00-3023	Practice Personal Hygiene to Maintain Fitness
	04-8310.00-3017	Protect Yourself Against Cold

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: COMMAND SECTION
BATTERY HEADQUARTERS

TASK: REDUCE BATTLEFIELD STRESS (12-1-C401.06-A000)
(FM 26-2) (FM 22-9)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit has performed its combat mission on a continuous or near continuous basis over a prolonged period of time. The unit commander directs that battlefield stress procedures be implemented. This task should not be trained in MOPP4.

TASK STANDARDS: Unit leaders develop and implement stress reduction plans (cross training, task rotation, stress management, sleep discipline, and soldier information measures etc) IAW applicable supporting products and commander's guidance.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The battalion/battery commander and staff ensure that soldiers are kept informed as follows: + <ul style="list-style-type: none"> a. Issue warning orders, OPORDs, and FRAGOs to the lowest possible level. b. Ensure that soldiers have an accurate assessment of the friendly and enemy situations. c. Inform the soldiers of leader's intentions. d. Speak positively concerning the unit mission, purpose, and abilities. e. Encourage a positive attitude throughout the unit. f. Quell and prevent rumors. * 2. The battalion/battery commander and staff implement unit sleep plan as follows: + <ul style="list-style-type: none"> a. Provide safe and secure areas for sleep that are away from vehicles and noisy activities. b. Provide an opportunity for a maximum number of soldiers to sleep or rest. c. Provide time and specify time for leaders to sleep or rest. d. Adjust sleep plan to the tactical situation. * 3. The battalion staff implements task rotation and restructuring procedures as follows: + <ul style="list-style-type: none"> a. Directs cross training on critical tasks. b. Plans rotation of soldiers between demanding and nondemanding tasks. c. Adjusts task rotation/restructuring plan to the tactical situation. * 4. The battalion/battery commander and staff implement stress coping and management techniques as follows: + <ul style="list-style-type: none"> a. Ensure that units implement a buddy system to observe signs of stress or battle fatigue among soldiers and leaders. b. Direct soldiers' relaxation techniques prior to deployment. c. Reintegrate returned-to-duty, stressed, or battle fatigued soldiers into the unit. * 5. The battalion/battery commander and staff implement treatment techniques. They will do the following: + <ul style="list-style-type: none"> a. Develop a plan to deal with mild, seriously stressed soldiers, or battle fatigue cases. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
b. Assign simple tasks to soldiers who show signs of stress or battle fatigue. c. Encourage leaders to be supportive of soldiers suffering from stress or battle fatigue. d. Move stressed or battle fatigued soldiers who show no signs of improvement to unit trains or medical facilities. e. Refer soldiers for medical evaluation who have serious signs of stress or battle fatigue.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-I-MQS	S3-9001.18-0001	Manage Organizational Stress
	S3-9001.18-0002	Minimize Combat Stress
STP 6-13II-MQS	01-2999.99-0600	Command a Battery

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: HANDLE ENEMY PRISONERS OF WAR (19-2-C702.06-A000)
(FM 19-40)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Enemy soldiers surrendered or were captured. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The capturing element takes charge of and evacuates EPW IAW unit SOP and the 5 Ss and T (search, silence, segregate, speed, safeguard, and tag).

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. The element searches EPW. + <ol style="list-style-type: none"> a. Remove all weapons and documents. b. Return personal items of no military intelligence value. c. Give a written receipt for personal property to the prisoner from whom it was taken. d. Tag each EPW and each item removed from him with necessary information to include: (1) Date/time of capture. (2) Place of capture (grid coordinates). (3) Capturing unit. (4) Circumstances of capture. 2. The element segregates EPW. + <ol style="list-style-type: none"> a. Segregate EPWs by rank, sex, deserters, civilians, nationality, and ideology. b. Turn wounded EPWs over to medical personnel for evacuation through medical channels. 3. The element silences EPW. + <ol style="list-style-type: none"> a. Prevent EPW leaders from giving orders. b. Prevent EPWs from planning escape. c. Do not talk in front of EPWs except to issue orders and maintain discipline. 4. The element tags the EPW with DA Form 5976 (Enemy Prisoner of War Capture Tag). + <ol style="list-style-type: none"> a. Annotates the following information: (1) Date and time of capture. (2) Capturing unit. (3) Grid coordinates of capture. (4) Circumstance of capture. b. Attaches Part A to EPW. c. Retains Part B for unit records. d. Attaches Part C to property. 5. The element speeds EPW to the rear. + <ol style="list-style-type: none"> a. Platoon leader/platoon sergeant notifies executive officer (XO)/first sergeant (1SG) that EPWs have been captured. b. Remove EPWs rapidly to the rear per unit SOP. c. Exploit intelligence information. 6. The element safeguards EPW. + <ol style="list-style-type: none"> a. Remove EPWs from the dangers of the battlefield. b. Do not allow anyone to abuse EPWs. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
c. Treat EPWs humanely.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	191-377-5250	HANDLE ENEMY PERSONNEL AND EQUIPMENT

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: USE PASSIVE AIR DEFENSE MEASURES (44-1-C220.06-A000)
(FM 44-8)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The Unit is in a tactical position. Hostile aerial platforms (rotary-wing, fixed-wing, UAVs) have been operating in the general area. Unit weapon control status is WEAPONS HOLD. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The unit uses passive air defense measures IAW FM 44-8, unit TSOP and commander's guidance.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The unit uses passive air defense measures in a tactical position. +</p> <ul style="list-style-type: none"> a. Uses all available resources (camouflage, cover, concealment, dispersion, and so forth) to hide personnel and equipment to limit their vulnerability. Air situational awareness is achieved by unit monitoring the SHTUs. b. Covers or shades shiny items, particularly windshields and optics. c. Establishes and rehearses air attack alarms. d. Disperses vehicles, tents, and supplies to reduce vulnerability to air attack. e. Constructs field fortifications with organic equipment as necessary to protect personnel and vulnerable mission essential equipment. f. Mans OPs /LPs (daytime or nighttime) to provide warning of approaching aerial platforms (rotary-wing, fixed-wing, UAVs). g. Establishes a listening watch on the air defense early warning net, if equipment is available and operational. <p>* 2. The unit uses passive air defense measures in a convoy. +</p> <ul style="list-style-type: none"> a. Convoy commander briefs all platoon personnel. b. Camouflages vehicles and equipment before moving out. c. Selects column interval based on instructions, mission, and terrain. d. Place crew served weapons throughout the convoy to cover front, rear, and flanks (avenues of approach). e. Assigns soldiers to air guard duties with specific search sectors covering 360 degrees f. Visually identifies threat aerial platforms (rotary-wing, fixed-wing, UAVs). g. Reports all aircraft actions to higher headquarters. h. Establishes and rehearses air attack alarms. <p>3. Unit personnel use passive air defense measures when occupying or displacing.</p> <p>+</p> <ul style="list-style-type: none"> a. Maintains vehicle interval specified in the movement order. b. Staggers vehicles to avoid linear patterns. c. Assigns air guards to sectors of search that cover 360 degrees and maintains coverage until convoy completes the movement. d. Visually identifies threat aerial platforms (rotary-wing, fixed-wing, UAVs). e. Reports all aircraft actions to higher headquarters. f. Establishes vehicle order of precedence. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	301-348-1050	REPORT INFORMATION OF POTENTIAL INTELLIGENCE VALUE
STP 21-24-SMCT	441-091-3001	DIRECT UNIT AIR DEFENSE

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: TAKE ACTIVE COMBINED ARMS AIR DEFENSE AGAINST HOSTILE AIR PLATFORMS (44-1-C221.06-A001)

(FM 44-8)

(STP 21-1-SMCT)

(STP 21-24-SMCT)

(STP 21-I-MQS)

(FM 44-80)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Unit receives early warning of aerial platforms (rotary wing, fixed-wing, UAVs) in the area. Unit personnel detect unknown or hostile aerial platforms (rotary-wing, fixed-wing, UAVs). Unit is in a tactical position. WCS is "WEAPONS TIGHT". Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Unit destroys or forces the attacking aerial platforms (rotary-wing, fixed-wing, UAVs) away from friendly positions. The time required to perform this task in MOPP 4 and or blackout conditions is increased.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. Leaders direct combined arms air defense measures against hostile aerial platforms not attacking a stationary unit. +</p> <ul style="list-style-type: none"> a. Give air attack alarm. b. Occupy defensive positions. c. Searches assigned sectors for aerial platforms. d. Identify and report presence of aerial platforms in the area and sends PIR to higher headquarters. <p>NOTE: When making the decision of whether or not to fire at non-attacking hostile aerial platforms with small arms, take into consideration the assigned mission and tactical situation. Unit must positively and visually identify aerial platforms prior to engaging with small arms unless the aircraft is committing a hostile act.</p> <ul style="list-style-type: none"> e. Leader makes engagement decision. <p>DANGER: Munitions cannot distinguish between friend and foe. Review all airspace control measures. You must perform all precautionary measures to ensure that the munitions you fire does not cause injury or death to friendly forces or damage to allied equipment. Even computerized systems require close attention.</p> <ul style="list-style-type: none"> f. Unit engages the aerial platforms with all available small arms (rifles and machine guns). <p>NOTE: Expect the firing signature from small arms to disclose the platoon's position.</p> <ul style="list-style-type: none"> g. Engagement causes no fratricide. h. Reloads weapons following engagement. i. Sends PIRs to higher headquarters. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>Notes: Aim points for propeller-driven aircraft are the same as for helicopters. Select aim points in football field lengths---one football field equals approximately 91meters. Once the lead distance is estimated, the riflemen and machine gunners aim and fire their weapons at the aim point until the aircraft has flown past that point. Maintain the aim point, not the lead distance. The weapon should not move once the firing cycle starts. Establish preselected aim points when the platoon is in a static position. Accuracy in relation to target hits is not necessary. Accuracy in relation to the aim point is not necessary. A coordinated high volume of fire that the aircraft has to fly through will achieve the desired results. The lead distances are as follows: Jet/Cruise Missile--Crossing--Two football fields in front of aerial platforms nose Jet/Cruise Missile--Overhead--Two football fields in front of aerial platforms nose Jet/Cruise Missile--Directly at you--Slightly above aerial platforms nose Helicopter/UAV--Crossing--One-half football field in front of nose Helicopter/UAV--Directly at you--Slightly above helicopter /UAV body ::: Helicopter/UAV--Hovering--Slightly above helicopter/UAV body.</p> <ul style="list-style-type: none"> j. Evaluate situation and moves unit position as directed by unit commander. <p>* 2. Leaders direct small arms air defense measures against hostile aerial platforms not attacking a moving target. +</p> <ul style="list-style-type: none"> a. Give air attack alarm. b. Disperse vehicles laterally and in depth or vehicle operators continue to move unit. c. Move vehicles to covered, concealed positions. All personnel not assigned crew-served weapons dismount and prepare to engage the aircraft or increase dispersion. d. Engage non-attacking aircraft only as directed. e. Visually identify threat aerial platforms. f. Report all aerial platforms actions to higher headquarters. g. Senior leader orders the unit to engage. h. Engages the aerial platforms with all available small arms. <p>* 3. Leaders direct combined arms air defense measures against aerial platforms attacking stationary unit. +</p> <ul style="list-style-type: none"> a. Gives air attack alarm. b. All available personnel immediately engage attacking aerial platforms per TSOP. c. Reloads weapons following the engagement. d. Personnel assigned OPs continue to scan their assigned sectors. e. Reports any aircraft action to higher headquarters. f. Reports casualties to higher headquarters. g. Evaluates situation and moves unit position as directed by tactical situation or TSOP. <p>* 4. Unit leader or NCOs directs small arms air defense measures during convoy movement +</p> <ul style="list-style-type: none"> a. Alerts vehicle commanders of impending attack. b. Disperses vehicles alternately to shoulders of the road (off road, if possible). Turns to covered, concealed positions if terrain permits. c. Maintains vehicle intervals or increases interval or dispersion. Uses evasive driving techniques. d. Dismounts and takes up firing positions. e. Prepares personnel to fire on orders of the senior individual present or automatically returns fire (per engagement procedures) if an aircraft is attacking. f. Identifies the aerial platforms. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
g. Engages the aerial platforms with all available small arms (rifles and machine guns). h. Reloads weapons following the attack. i. Reports the attack and submits PIRs to higher headquarters. j. Reports casualties to higher headquarters.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	071-311-2007	ENGAGE TARGETS WITH AN M16A1 OR M16A2 RIFLE
	071-311-2027	LOAD AN M16A1 OR M16A2 RIFLE
	071-312-3027	LOAD AN M60 MACHINE GUN
	071-331-0804	PERFORM SURVEILLANCE WITHOUT THE AID OF ELECTRONIC DEVICES
	301-348-1050	REPORT INFORMATION OF POTENTIAL INTELLIGENCE VALUE
STP 21-24-SMCT	441-091-1040	VISUALLY IDENTIFY THREAT AIRCRAFT
	121-030-3534	REPORT CASUALTIES
	441-091-1040	VISUALLY IDENTIFY THREAT AIRCRAFT
	441-091-3001	DIRECT UNIT AIR DEFENSE
STP 21-II-MQS	551-721-3352	DIRECT CONVOY DEFENSE OPERATIONS
	01-5700.01-0001	Communicate on a Tactical Radio
	03-3711.04-0001	Report Information of Potential Intelligence Value
STP 21-I-MQS	01-5700.01-0001	Communicate on a Tactical Radio
	03-3711.04-0001	Report Information of Potential Intelligence Value

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PERFORM RISK MANAGMENT PROCEDURES (71-3-R231.06-0001)
 (6-FSCATT) (AR 385-10) (DA PAM 385-1)
 (FM 8-10)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is deployed in a tactical environment supporting combat operations. Safety hazards for personnel and equipment increase as operations intensify. OPORD and TSOP are available. This task may be performed under all environmental conditions, day or night. The unit may be subject to air, ground, or NBC attack, or radiological fallout. Field expedient and natural shelters are available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Potential safety problems for tasks are identified and either reduced or eliminated IAW AR 385-10 and DA Pam 385-1.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. Commanders and leaders identify risk and/or safety hazards. + <ul style="list-style-type: none"> a. Identify specified and implied missions or tasks in OPORD or FRAGO. b. Identify all risks associated with specified and implied missions or tasks. c. Integrate safety into every phase of the planning process. d. Identify the benefits of safety measures to the mission versus potential cost of risk or hazard. e. Conduct continuous assessment of all operational phases for safety and risk reduction. * 2. Commanders and leaders evaluate risk or safety hazards identified during operations. + <ul style="list-style-type: none"> a. Implement corrective risk reduction actions to prevent unsafe acts that were previously identified. b. Identify unwarranted risks. c. Compare identified risk to the acceptable risk level stated in the commander's intent based on the objective. d. Calculate projected equipment and personnel losses from accidents by reviewing historical records. e. Describe operations in terms of its risk level (extremely high, high, medium, low). f. Prepare course of action (COA) that minimizes accidental losses. g. React to unforeseen risk and safety hazards and risks and implement responses to them. * 3. Commanders and leaders eliminate or reduce risk and safety hazards. + <ul style="list-style-type: none"> a. Select COA that maximizes operational effectiveness and minimizes risk. b. Develop procedures that reduce risks. c. Provide guidance that enhances safety in all phases of operations. d. Prescribe safety or protective equipment that enhances safety and reduces risks. 4. All personnel employ safety enhancement procedures and conduct self analysis. <ul style="list-style-type: none"> a. Practice safety procedures during all mission rehearsals and operations. b. Correct unsafe acts on the spot. c. Report risks and safety violations immediately. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
d. Personnel will report risks and hazards not previously identified.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13II-MQS	01-2999.99-0600	Command a Battery

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: COMMO SECTION
COMMO PLATOON HEADQUARTERS

TASK: PROVIDE ORGANIZATIONAL COMMUNICATIONS/ELECTRONICS MAINTENANCE SUPPORT (06-2-A005)
(FM 29-2)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is conducting combat operations. Communications technical manuals, maintenance forms and records are on hand. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The communications officer/NCO monitor, supervise and implement maintenance of communications equipment IAW TSOP, commander's guidance and organizational TMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. Communications platoon leader and/or C-E officer will supervise battalion unit level maintenance. + a. Monitor maintenance and brief commander and staff on equipment status. b. Allocate maintenance resources as required. c. Establish maintenance priorities.		
* 2. The battery communications chief implements/directs battalion unit level maintenance support as follows: + a. Coordinate request for parts. b. Control communications PLL parts c. Coordinate scheduled services. d. Coordinate evacuation of defective equipment. e. Advise communications officer and platoon leader on equipment status.		
3. The communications section provides maintenance support as follows: + a. Isolate equipment faults. b. Makes authorized repairs. c. Evacuates equipment as required. d. Performs services. e. Maintain equipment records as required.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	113-573-0002	CONDUCT OPERATIONS SECURITY (OPSEC) PROCEDURES
	113-573-8006	USE AN AUTOMATED SIGNAL OPERATION INSTRUCTION (SOI)

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY HEADQUARTERS

TASK: COORDINATE COMBAT SERVICE SUPPORT FOR A FIELD ARTILLERY BATTERY (06-2-A007)

(FM 6-50)
(FM 6-60)

(FM 10-1)

(FM 6-20)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is conducting combat operations. Replacement personnel and all classes of supply are available from higher HQ. A unit maintenance collection point has been established. This task fits all artillery unit types. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The battery conducts resupply, maintenance, and personnel evacuation/replacement operations IAW commander's guidance, unit TSOP and applicable FMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The BC/platoon leader analyzes the mission, with input from key NCOs (NBC NCO, supply SGT, section chiefs) and leaders, and determines anticipated ammunition, supply, and service requirements. + * 2. The 1SG/platoon SGT coordinates, supervises, and executes the battery/platoon combat service support (CSS) plan. <ul style="list-style-type: none"> a. Receives, consolidates, and forwards all logistical, personnel, and casualty reports to higher HQ. + b. Supervises evacuation of casualties, EPWs, and damaged equipment. + c. Establishes and supervises resupply activities. + d. Monitors maintenance activities. e. Assigns replacement personnel. + f. Maintains battle rosters. * 3. The 1SG/platoon SGT coordinates with the supply SGT and higher HQ to select supply techniques (in position, out of position, or preposition) to support the battery/platoon. 4. The battery/platoon performs resupply operations. + <ul style="list-style-type: none"> a. Reports its supply status IAW the TSOP using coded messages or secure devices on the appropriate administrative/logistic net. b. Requests all classes of supply, water, maps, and special equipment based on mission analysis and current supply status. c. Distributes supplies IAW the commander's guidance. If supplies are inadequate for the entire battery/platoon, incoming supplies are distributed based on the priorities established by the commander from his mission analysis. d. Redistributes and cross levels supplies internally based on the commander's priorities, if resupply is not available. e. Conducts resupply without restricting movement, hampering preparation, or compromising security. f. Resupplies and conducts tactical feeding of soldiers in a covered and concealed area if possible. 5. The battery/platoon maintains all assigned and attached equipment. + <ul style="list-style-type: none"> a. Section chiefs supervise daily PMCS. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>b. Soldiers clean, inspect, and function check all equipment for which they are responsible.</p> <p>c. The armorer does the following:</p> <ol style="list-style-type: none"> (1) Repairs all unserviceable weapons within his maintenance level authorization. (2) Requests repair parts IAW TSOP. (3) Uses controlled substitution on unserviceable weapons for parts, when authorized. <p>d. The communications personnel do the following:</p> <ol style="list-style-type: none"> (1) Repair all unserviceable communications equipment within the maintenance level of authorization. (2) Use controlled substitution on unserviceable equipment, when authorized. (3) Request repair and replacement parts. <p>6. The battery/platoon recovers and moves damaged equipment to the UMCP.</p> <ol style="list-style-type: none"> a. The 1SG/platoon sergeant supervises the collection of all damaged equipment. b. Moves all damaged equipment using internal recovery if possible. Requests support from higher HQ if needed. c. Requests replacement equipment IAW the TSOP. d. Uses foraged or scavenged friendly, enemy, or civilian equipment to replace damaged equipment, when authorized. <p>7. The battery/platoon performs personnel service functions. +</p> <ol style="list-style-type: none"> a. The 1SG/platoon SGT reports personnel status and requests replacements as necessary. b. The battery/platoon treats and evacuates casualties IAW the TSOP. c. The 1SG/platoon SGT reassigns soldiers after sustaining casualties, based on the commander's guidance to ensure that leadership and other key positions are filled and to ensure that weapons are manned. d. The BC/platoon leader reorganizes sections when individual reassignments are inadequate. e. Replacement personnel are integrated into the battery/platoon as follows: <ol style="list-style-type: none"> (1) The 1SG/platoon SGT ensures they have a serviceable weapon, ammunition, MOPP gear, and other essential equipment. (2) The 1SG/platoon SGT ensures the supply SGT issues missing equipment to the replacements. (3) The BC/platoon leader meets and quickly orients replacements to the battery/platoon. (4) The 1SG/platoon SGT assigns the replacements to a section based on the priorities established by the commander. (5) The gaining section chief introduces the replacements to section personnel. (6) The section chief briefs new replacements on their duties, responsibilities, recent section activities, TSOP, and assigns an experienced buddy. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 10-77F1-SM/TG	101-519-1167	Prepare DA form 3643 (Daily issue of petroleum products)
STP 10-92Y24-SM-TG	101-521-3101	ACCOUNT FOR ABSENTEE'S CLOTHING, EQUIPMENT, AND PERSONAL EFFECTS
	101-521-3102	DISPOSE OF ABSENTEE'S CLOTHING, EQUIPMENT, AND PERSONAL EFFECTS
	101-521-3105	DIRECT THE CONTROL AND SECURITY OF WEAPONS AND AMMUNITION IN UNIT STORAGE AREA
	101-521-3251	MAINTAIN MANUAL/AUTOMATED HAND RECEIPT
	101-521-3252	CONTROL/SUPERVISE PROPERTY ADMINISTRATION IN UNIT SUPPORTED BY MANUAL/AUTOMATED SYSTEMS
STP 21-24-SMCT	071-326-0515	SELECT A MOVEMENT ROUTE USING A MAP
	071-329-1019	USE A MAP OVERLAY
	071-332-5000	Prepare an Operation Overlay
	081-831-0101	REQUEST MEDICAL EVACUATION
	081-831-0102	SUPERVISE UNIT PREVENTIVE MEDICINE AND FIELD SANITATION PROCEDURES
	121-030-3534	REPORT CASUALTIES
STP 21-I-MQS	03-5101.00-0281	Direct the Preparation and Maintenance of Unit Supply Records
	03-5101.00-0282	Direct the Storage of Unit Supplies, Weapons, Equipment, and Ammunition
	03-5101.00-0283	Supervise the Maintenance of Unit Prescribed Load List
STP 92Y1-SM	101-521-1154	RECEIVE SUPPLIES AND EQUIPMENT
	101-521-1155	SUPPLIES AND EQUIPMENT TO HAND-RECEIPT HOLDERS

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PERFORM OPERATORS MAINTAINENCE ON COMMUNICATIONS EQUIPMENT (06-2-A078)
(DA PAM 738-750)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery/platoon is conducting combat operations. Appropriate equipment technical manuals (TMs) and maintenance forms and records are on hand. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Communications equipment is maintained IAW operator's TM and all uncorrectable faults are recorded on Equipment Inspection and Maintenance Work sheet and reported to the first line supervisor.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. Section chiefs do the following: + <ul style="list-style-type: none"> a. Ensure operators have appropriate TMs. b. Schedule and direct routine operator maintenance on assigned communications equipment. c. Ensure cleaning materiels are available to perform operator maintenance. d. Coordinate with communications chief for technical assistance beyond operator level. 2. Battery/platoon personnel perform maintenance on assigned communications equipment as follows: <ul style="list-style-type: none"> a. Perform routine preventive maintenance checks and services (PMCS) specified by the operator TM. b. Correct noted deficiencies. c. Record uncorrected faults on an Equipment Inspection and Maintenance Work sheet. d. Report deficiencies to section chiefs. + 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
No STP and No MOS	061-300-5002	Establish TAFCS Communications Configurations (AFATDS Units)
STP 21-24-SMCT	091-309-0710	SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES
STP 6-13B1-SM	061-275-8004	Operate SINGARS ICOM w/VIC-1

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B24-SM-TG	113-587-2063	Operate Radio Set AN/VRC-43 or AN/VRC-46 with TSEC/KY-57
STP 6-13C14-SM-TG	061-300-5019	Supervise Operation of TAFCS (AFATDS Units)
STP 6-13E13-SM-TG	061-279-5003	Maintain Communication Using the AFC/DS
STP 6-13II-MQS	091-900-0006	DIRECT UNIT MAINTENANCE OPERATIONS DURING UNIT OPERATIONS
STP 6-13P14-SM-TG	061-275-8016	Supervise the Operation of Improved High Frequency Radio (IHFR) Sets
	061-275-8020	Supervise Field Artillery (FA) Automation/Communications System Operation
	061-276-1010	Install Antenna Group OE-303
	061-287-5010	Process Multiple Launch Rocket System (MLRS) Fire Plan(s)
	061-287-5023	Advice Supported Unit of MLRS Capabilities and Limitations.
	061-287-5024	Disseminate Fire Support Information to Lower, and Higher Field Artillery Elements.

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: MAINTENANCE SECTION
 BATTERY MAINTENANCE SECTION

TASK: MANAGE MAINTENANCE RECORDS AND SUBMIT REPORTS (06-4-A001)
 (DA PAM 738-750) (DA PAM 710-2-1)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is conducting combat operations and combat service support guidance has been received. Higher echelon support facilities have been established. The maintenance section is performing scheduled services and equipment repair. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The maintenance officer/SGT maintains all required maintenance records IAW DA Pam 710-2-1 and DA Pam 738-750 and submits all required reports.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The maintenance SGT monitors and controls dispatch of all vehicles as follows: <ul style="list-style-type: none"> + <ul style="list-style-type: none"> a. Uses Organizational Control Record for Equipment or Dispatch Control Log. b. Ensures that procedures are done IAW DA Pam. * 2. The battery maintenance SGT schedules and monitors organizational PMCS as follows: <ul style="list-style-type: none"> + <ul style="list-style-type: none"> a. Maintains critical records, as required, to include Preventive Maintenance Schedule and Record. b. Ensures that services are done IAW the appropriate TM and DA Pam. * 3. The battery maintenance SGT monitors records for the following: <ul style="list-style-type: none"> + <ul style="list-style-type: none"> a. Required daily entries on Equipment Inspection and Maintenance Work sheet. b. Required daily entries on Motor Vehicle Utilization Record. c. Equipment record folders on hand for each vehicle. d. Historical records on all equipment as required by DA Pam. * 4. The battery maintenance SGT maintains Document Register for Supply Action as follows: <ul style="list-style-type: none"> + <ul style="list-style-type: none"> a. Completes and maintains the form IAW the DA Pam 710-2-1. b. Ensures due in status reflected is current. c. Records follow up action as required. * 5. The maintenance SGT requests repair parts as follows: <ul style="list-style-type: none"> + <ul style="list-style-type: none"> a. Initiates and edits all requests by using the appropriate TM and the Army Master Data File (AMDF). b. Posts all entries to document register. c. Forwards all requests to appropriate supply activity. * 6. The maintenance SGT prepares and submits equipment status reports, as required, on Material Readiness Report or Army Material Status System (AMSS) IAW DA Pam. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 9-63B35-SM-TG	091-309-0633	PREPARE MATERIAL CONDITION STATUS REPORT
	091-309-0671	INSPECT MOTOR EQUIPMENT UTILIZATION RECORD (DD FORM 1970)
	091-309-0673	INSPECT PREVENTIVE MAINTENANCE RECORD SCHEDULE AND RECORD, DD FORM 314
	091-309-0680	INSPECT RECORD OF DEMANDS
	091-309-0685	PREPARE ACCIDENT REPORT (DA FORM 285)
	091-309-0698	INSPECT UNIT DEMANDS SUMMARY LISTING (AUTOMATED)
	091-309-0700	INSPECT RECONCILIATION LISTING (AUTOMATED)
	091-309-2026	INSPECT OIL ANALYSIS REQUEST (DD FORM 2026)

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: MAINTENANCE SECTION
 BATTERY MAINTENANCE SECTION

TASK: ESTABLISH AN ORGANIZATIONAL MAINTENANCE FACILITY (06-4-A002)
 (DA PAM 738-750) (FM 6-20-1) (FM 6-50)
 (FM 6-60)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is conducting combat operations. The maintenance section has all organic equipment and the need for repairs exists. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The maintenance section will establish and organize the maintenance facility IAW commander's guidance, TSOP and applicable FMs/TMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The maintenance SGT ensures section does the following: a. Organizes maintenance facilities for efficient work flow and rapid displacement. b. Uses manmade and natural camouflage. c. Installs generator sets. d. Grounds the generator sets IAW the appropriate TM and has a fire extinguisher available. e. Maintains and controls organic tools and test measurement and diagnostic equipment (TMDE). This is done by establishing a sign out log. f. Establishes a collection point for vehicles that are beyond the capability of the unit to repair. g. Performs operator/organizational preventive maintenance checks and services (PMCS) as required. Annotates Equipment Inspection and Maintenance Work sheet IAW DA Pam 738-750. * 2. The maintenance SGT ensures necessary TMs are available. Each crew should have on hand one -10, -20, and 20P manuals for each item of equipment. +		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	091-309-0710	SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES
	091-309-0711	DIRECT VEHICLE AND EQUIPMENT RECOVERY OPERATIONS
	850-001-2001	ASSESS POTENTIAL FOR ACCIDENTS

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-I-MQS	O3-4376.04-0001	Evaluate Unit Calibration Program
	O3-4651.90-0001	Supervise Training and Licensing of Unit Equipment Operators
	O3-4966.90-0010	Supervise Preventive Maintenance Checks and Services
	O3-4976.90-0501	Prepare a Materiel Condition Status Report
	O3-5101.00-0283	Supervise the Maintenance of Unit Prescribed Load List
STP 6-13B1-SM	061-271-1475	Perform Maintenance of the Valve Selector Speed Shift, and Valve Wheels (M198) (U6)

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: SUPPLY SECTION

TASK: MAINTAIN PETROLEUM, OILS, AND LUBRICANTS (06-4-A003)
(AR 703-1)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is conducting combat operations and combat service support guidance has been received. Higher echelon support facilities have been established. The battery maintenance/supply facility has been established. The battery is using packaged petroleum, oils, and lubricants (POL), products and stocks need replenishing. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The supply section manages and maintains the battery packaged POL IAW commander's guidance, CSS guidance, TSOP and applicable FMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The commander ensures sections/platoons do the following: a. Load basic load of POL on section vehicle(s) IAW vehicle load plans. b. Clearly mark all containers to properly identify contents. c. Receive daily issues of POL as required. d. Camouflage and/or conceal all POL points. e. Store POL IAW all applicable safety regulations. f. Ensure maximum protection of the environment by proper cleanup of any POL spillage. 2. The supply section does the following: a. Conducts continuous coordination with supporting agencies. b. Ensures the entire basic load of packaged POL products is received from the higher HQ. c. Accounts for all packaged POL products by using inventory account card. d. Establishes POL point(s). Ensures all points are easily accessible. e. Coordinates with ALOC/BOC/POC on POL resupply technique.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 10-77F1-SM/TG	101-519-1167	Prepare DA form 3643 (Daily issue of petroleum products)
STP 10-92Y24-SM-TG	101-521-3252	CONTROL/SUPERVISE PROPERTY ADMINISTRATION IN UNIT SUPPORTED BY MANUAL/AUTOMATED SYSTEMS

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: AMMUNITION SECTION
2 AMMUNITION SEC

TASK: TRANSPORT AMMUNITION (FIRING BATTERY) (06-4-C006)
 (FM 6-70) (TM 9-1300-206) (AR 385-64)
 (FM 6-50) (ST 6-50-60) (TM 9-2320-280-10)
 (TM 9-2350-247-10)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battalion ammunition section has delivered ammunition to the battery. Ammunition has been loaded on ammunition vehicles and ready for transport. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The section transports ammunition IAW section chief's guidance, TSOP and applicable TMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The section secures ammunition properly before movement. +		
* 2. The section chief plans and conducts road march IAW guidance received.		
* 3. The section chief ensures vehicle gross weights are consistent with the type surface terrain over which ammunition is transported.		
* 4. The section chief ensures fire extinguishers are present and operable on ammunition vehicles.		
* 5. The section chief ensures accurate weight classification is reflected on vehicle and that bridges are adequate to sustain the loaded weight of the vehicle.		
6. The section loads vehicles according to vehicle load plan.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

“*” indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	071-326-0515	SELECT A MOVEMENT ROUTE USING A MAP
STP 6-13B1-SM	061-266-1501	Load and Secure Ammunition in Preparation for Transporting
	061-266-1510	Repackage the M712 and/or M823 Projectile (155-MM Howitzer)

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B24-SM-TG	061-266-2236	Supervise the Loading and Securing of Howitzer Ammunition in Preparation for Transporting
	061-266-3501	Monitor Loading and Securing of Ammunition in Preparation for Transporting/Firing
	061-266-4019	Supervise Ammunition Operations

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: HOWITZER SECTION

TASK: STORE AMMUNITION (HOWITZER SECTION) (06-4-C008)

(FM 6-70)
(ST 6-50-60)

(TM 9-1300-206)
(TM 9-2320-280-10)

(FM 6-50)
(TM 9-2350-247-10)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The section is conducting combat operations and has been issued its basic load of ammunition. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The section chief and crew store ammunition IAW load plans. Ammunition is stored by lot and in IAW applicable TMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. The crew segregates ammunition by type and lot when loading on vehicle. + 2. The crew loads ammunition IAW load plan. 3. The crew leaves ammunition palletized and containerized until needed. 4. The crew keeps ammunition dry and out of direct sunlight. 5. The crew stores WP upright (on its base). + 6. The crew protects ammunition from enemy fires. 7. The crew provides ventilation when stacking and storing ammunition. 8. The crew properly secures projectiles, charges, and fuse cans, etc., IAW appropriate TM. +		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

“*” indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B1-SM	061-266-1501	Load and Secure Ammunition in Preparation for Transporting
	061-266-1510	Repackage the M712 and/or M823 Projectile (155-MM Howitzer)
	061-357-1019	Perform Ammunition Transfer Operations by Using the M992 Carrier Ammunition Tracked
STP 6-13B24-SM-TG	061-266-2236	Supervise the Loading and Securing of Howitzer Ammunition in Preparation for Transporting

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-266-3501	Monitor Loading and Securing of Ammunition in Preparation for Transporting/Firing
	061-266-4019	Supervise Ammunition Operations

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: AMMUNITION SECTION

TASK: DRAW CANNON AMMUNITION (BATTERY AMMUNITION SECTION) (06-4-C010)
 (FM 6-70) (TM 9-1300-200) (TM 9-1300-206)
 (AR 190-11) (AR 710-2) (FM 6-50)
 (ST 6-50-60)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The amount and types of ammunition to draw have been provided by the BC. Location of the ammunition supply point (ASP) and ammunition transfer point (ATP) have been provided to section chiefs. Movement orders have been received by section chiefs. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The section chief and crew account for and receive the number of rounds requested. Ammunition is counted one by one and based on completed required entries on Request for Issue and Turn in Ammunition form. Procedures are IAW applicable FMs and TMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The section chief ensures ammunition vehicles have appropriate safety equipment for the transport of ammunition. + 2. The ammunition section arrives at the ASP/ATP with properly prepared and authenticated Request for Issue and turn in Ammunition form. 3. the ammunition section inspects ammunition for serviceability and compatibility. + * 4. The section chief monitors and loads ammunition on vehicles as follows: + a. Secures ammunition. b. Segregates ammunition. c. Ensures vehicle payload is not exceeded. d. Loads WP ammunition with it standing upright (on its base) and secured.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B1-SM	061-266-1501	Load and Secure Ammunition in Preparation for Transporting
STP 6-13B24-SM-TG	061-266-2236	Supervise the Loading and Securing of Howitzer Ammunition in Preparation for Transporting

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-266-3501	Monitor Loading and Securing of Ammunition in Preparation for Transporting/Firing
	061-266-4019	Supervise Ammunition Operations

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: AMMUNITION SECTION

TASK: PREPARE AMMUNITION FOR AIR TRANSPORT (06-4-C011)
 (FM 55-450-1) (FM 55-450-2) (FM 55-450-3)
 (FM 6-50)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The terrain precludes resupply by vehicles. Ammunition must be rigged for movement by helicopter. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The ammunition section loads and secures ammunition to pallets or A-22 bags IAW FM 55-450-1. The section chief supervises the rigging of the load and the hookup to the helicopter and ensures proper ground control is used.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The battalion ammunition officer or sergeant briefs all personnel on the mission on the following: a. Actions to be taken in the event of immediate action procedures. b. PZ or LZ security. c. Loading, rigging, aircraft ground guidance, and hookup procedures. 2. The section loads and secures all ammunition to be moved by air on pallets or sling bag, as directed by the ammunition officer or sergeant. a. Rigs all ammunition IAW appropriate publications. b. Uses proper aircraft ground guidance and hookup procedures. c. Secures PZ and LZ IAW guidance received from ammunition officer or sergeant.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B1-SM	061-266-1501	Load and Secure Ammunition in Preparation for Transporting

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PERFORM UNIT GRAVES REGISTRATION FUNCTIONS (10-2-C002.06-A000)
 (FM 10-63-1) (FM 10-63)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The tactical situation permits GRREG operations to be performed. The unit has sustained moderate to heavy fatalities. The unit either recovers the killed in action (KIA) and evacuates them to a designated GRREG collection point or performs an emergency burial. The unit may have the capability to perform aerial reconnaissance. Some remains may be contaminated. Tactical SOPs are available. This task is performed by non-GRREG personnel. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Search, recovery, evacuation, and emergency burial operations are performed in accordance with tactical SOP and appropriate FMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. Search and recovery team leader plans for the search. + <ul style="list-style-type: none"> a. Performs a map or aerial reconnaissance of the search area. b. Identifies additional support requirements. c. Requests additional support requirements from higher HQ. d. Identifies search pattern to be used. e. Coordinates NBC and explosive ordnance disposal (EOD) assistance with higher HQ. f. Coordinates security of area with higher HQ. * 2. Search and recovery team leader supervises the search, recovery, and evacuation operations. + <ul style="list-style-type: none"> a. Briefs search and recovery team on operational procedures. b. Issues personal effects pouches, human remains bags (if available), and NBC agent tags. c. Assigns areas of search. d. Monitors search and recovery team operations IAW TSOP. e. Coordinates evacuation operations with higher HQ. f. Forwards SITREP to higher HQ. 3. Search and recovery team conducts the search. + <ul style="list-style-type: none"> a. Searches assigned areas for remains and personal effects. b. Marks terrain locations of remains with pegs. c. Collects disassociated personal effects. d. Annotates locations of remains and personal effects on recovery sketch. 4. Search and recovery team recovers remains. + <ul style="list-style-type: none"> a. Inspects immediate area for booby traps and NBC contaminants. b. Conducts initial identification. c. Attaches NBC tag or tag marked with a large "C" to contaminated or contagious remains. d. Separates contaminated remains. e. Attaches personal effects to remains. f. Shrouds remains with available materials. g. Prepares sketch and map overlay of the recovery site. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
5. Search and recovery team evacuates remains. + a. Verifies that personal effects are attached to the remains. b. Transports remains to a designated GRREG collection point. * 6. Search and recovery team leader supervises emergency burials. + a. Identifies specific burial site and requests approval with higher HQ. b. Coordinates engineer support with higher HQ. c. Directs burial operations. d. Forwards burial sketches and map overlay to higher HQ. 7. Search and recovery team performs emergency burials. + a. Prepares and marks the grave sites. b. Buries US, allied, and enemy forces remains and personal effects in separate grave sites.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-I-MQS	04-3302.01-0003	Conduct a Reconnaissance
	03-5104.00-0007	Supervise Graves Registration Support
	03-5104.00-0026	Plan Graves Registration Support

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY HEADQUARTERS
SUPPLY SECTION

TASK: PROVIDE UNIT SUPPLY SUPPORT (10-2-C230.06-A001)
(AR 710-2) (DA PAM 710-2-1) (FM 3-4)
(FM 3-5) (FM 63-2)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Unit headquarters is receiving requests for supplies from subordinate elements. Equipment and supplies are arriving through supply channels, but additional supplies may be required. Extra small arms and ammunition are stored in the supply area. Supplies, weapons, and ammunition requirements established by the TSOP and/or OPORD are on hand or coordinated for use, when needed. Weapons may malfunction during operations. The unit TSOP and Battalion OPORD are available. Supply support is a continuous task that is performed simultaneously with other support and operational tasks. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Equipment, supplies, weapons, and ammunition requests are managed and provided by S4/supply, as needed, IAW commander's guidance, requirements established by the TSOP and/or OPORD, supply regulations and directives, and appropriate FMs and TMs. At MOPP level 4, unit supply support is reduced to minimal essential actions.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. Commander directs unit supply operations. <ul style="list-style-type: none"> a. Inspects supply records and status to ensure compliance with supply regulations, directives, and TSOP. b. Verify ULLS-S4 input, records and output for accuracy. c. Directs inventories of supplies and equipment to calculate assets on hand by using ULLS-S4-generated hand receipts and component of end item listings. d. Inspects unit equipment, weapons, and ammunition storage areas for compliance with supply regulations, directives, and the TSOP. e. Directs issue of supplies and equipment IAW Battalion guidance and/or TSOP sustainment controls. f. Forwards routine supply, weapons, and small arms ammunition requirements to the S4 section by inputting requests into ULLS-S4 and forwarding request data disks to the S4 section. g. Forwards emergency supply requests to the S4 section using applique call for support and ULLS-S4. * 2. Supply SGT supervises unit supply activities. <ul style="list-style-type: none"> a. Verifies supply due-in status from the ULLS-S4 document register. b. Conducts inventories to calculate assets on hand using ULLS-S4 generated hand receipts and components of end items listings. c. Develops supply storage plans. d. Monitors supply transactions to ensure compliance with established supply procedures. e. Supervises weapons and ammunition control. f. Prepares input to MCSR maintained by the maintenance personnel by annotating ULLS-G generated equipment status sheets. 3. Unit headquarters requests additional supplies. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> a. Collects requirements from elements using applique and other means as necessary.. b. Calculates resupply requirements. c. Records requests on the ULLS-S4 document register and forward them to the S4. <p>4. Unit headquarters receives supplies.</p> <ul style="list-style-type: none"> a. Compares supply quantities and stock numbers requisitioned against quantities and stock numbers received. b. Updates the ULLS-S4 document register with quantities and date received, as well as any new status on partial shipments. c. Forwards supplies to requesting element of the unit. <p>5. Battery headquarters issues supplies. +</p> <ul style="list-style-type: none"> a. Processes supply requests IAW appropriate regulations, directives, and TSOP. b. Prepares transaction documents IAW appropriate regulations, directives, and TSOP. c. Issues supplies as prescribed by commander's guidance. d. Maintains prescribed copies of transactions IAW appropriate regulations and directives. <p>6. Unit headquarters maintains small arms and ammunition. +</p> <ul style="list-style-type: none"> a. Controls stored weapons and ammunition IAW appropriate regulations and command policies. b. Requests ammunition resupply from the S-4. c. Performs unit level maintenance on small arms. d. Forwards weapons beyond organizational repair capabilities to support maintenance elements 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 10-92Y24-SM-TG	101-521-2161	REQUEST AND TURN IN AMMUNITION
	101-521-3101	ACCOUNT FOR ABSENTEE'S CLOTHING, EQUIPMENT, AND PERSONAL EFFECTS
	101-521-3102	DISPOSE OF ABSENTEE'S CLOTHING, EQUIPMENT, AND PERSONAL EFFECTS
	101-521-3105	DIRECT THE CONTROL AND SECURITY OF WEAPONS AND AMMUNITION IN UNIT STORAGE AREA
	101-521-3107	INSPECT ORGANIZATIONAL MAINTENANCE OF WEAPONS
	101-521-3151	Account for and Adjust Property Records for Bulk Petroleum

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	101-521-3215	Check the availability of Supply Publications Required to Support Unit Supply Operations
	101-521-3216	Supervise Subordinate Personnel in Determining Serviceability of Organizational Clothing and Equipment
	101-521-3251	MAINTAIN MANUAL/AUTOMATED HAND RECEIPT
	101-521-3252	CONTROL/SUPERVISE PROPERTY ADMINISTRATION IN UNIT SUPPORTED BY MANUAL/AUTOMATED SYSTEMS
	101-521-3253	Direct and Control Method of Obtaining Relief From Responsibility for Lost, Damaged, or Destroyed Property at Unit Level
	101-521-3254	Direct the Planning and Forecasting of Supplies (Classes I, III, and V) at the Unit Level
STP 21-I-MQS	S3-5101.00-0269	The US Army Supply System
STP 92Y1-SM	101-521-1151	Order Supplies and Equipment
	101-521-1152	Request Supply Status for High Priority Requests
	101-521-1153	Request Cancellation of Supplies
	101-521-1154	RECEIVE SUPPLIES AND EQUIPMENT
	101-521-1155	SUPPLIES AND EQUIPMENT TO HAND-RECEIPT HOLDERS
	101-521-1156	STORE SELECTED SUPPLIES AND EQUIPMENT IN UNIT STORAGE AREAS
	101-521-1163	Prepare and Maintain a Document Register
	101-521-1164	Prepare and Update Signature Cards
	101-521-2151	PREPARE A PROPERTY BOOK
	101-521-2152	POST TRANSACTIONS TO THE MANUAL PROPERTY BOOK
	101-521-2154	DETERMINE METHOD OF OBTAINING RELIEF FROM RESPONSIBILITY FOR LOST, DAMAGED, OR DESTROYED PROPERTY

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY HEADQUARTERS

TASK: MAINTAIN COMPANY/BATTERY STRENGTH (12-2-C321.06-A007)
 (FM 12-6) (FM 101-5) (STP 21-24-SMCT)
 (TC 12-6)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Company/battery has resumed combat operations. Casualties have occurred and replacements are arriving. During operations, the unit may encounter separate or multiple air, Level I threat, NBC, and terrorist attacks. Casualty processing and replacement actions continue during lulls in combat operations. Task may occur in a field or MOUT environment. TSOP is available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Personnel SITREP which accounts for all company personnel is reported daily or as required. The time required to prepare is increased when conducting this task in MOPP 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. Headquarters element collects strength information from subordinate sections. + <ol style="list-style-type: none"> a. Logs SITREP and other personnel information. b. Verifies strength data. c. Corrects erroneous and incomplete data. 2. Headquarters element processes information. + <ol style="list-style-type: none"> a. Consolidates subordinate element personnel information. b. Determines critical shortages and cross leveling requirements. c. Updates the battle roster. d. Prepares hasty PSR strength reports. 3. Headquarters element processes replacements. <ol style="list-style-type: none"> a. Briefs replacements on mission, tactical situation, company policies and procedures, specific duties and site/company orientation. b. Adds soldiers names to battle roster. c. Inspects critical clothing and equipment for shortages. d. Coordinates the issue of needed items. e. Arranges movement of replacements to platoon of assignment. * 4. First Sergeant disseminates strength information. + <ol style="list-style-type: none"> a. Briefs commander on unit strength and replacement status. b. Forwards Personnel SITREP or hasty strength reports. Casualty Feeder Reports (DA Form 1156), and Witness Statements (DA Form 1155) to supporting S1 section. c. Informs subordinate sections of projected replacements. * 5. Company/battery commander performs strength management functions. (03-0170.01-1005) <ol style="list-style-type: none"> a. Directs cross leveling. b. Verifies combat critical personnel requirements. c. Reviews strength management reports. d. Spot checks strength information processing. e. Briefs superiors on unit strength and replacement status. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	121-030-3534	REPORT CASUALTIES

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: SUPPORT PLATOON HEADQUARTERS
 FIRING PLATOON HEADQUARTERS
 TARGET ACQ PLATOON HEADQUARTERS

TASK: MAINTAIN PLATOON STRENGTH (12-3-C216.06-A008)
 (FM 12-6) (FM 3-3) (FM 3-5)
 (STP 21-24-SMCT) (TC 12-16) (TC 12-6)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Platoon has resumed combat operations. casualties have occurred and replacement are arriving. During operations, the unit may encounter separate or multiple air, Level 1 threat, NBC, and terrorist attacks. Casualty processing and replacement actions continue during lulls in combat operations. Task may occur in a field or MOUT environment. TSOP is available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: A personnel status report accounts for all platoon personnel is provided daily or as required.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. Squad members take immediate action. <ol style="list-style-type: none"> a. Perform first aid on wounded soldiers. b. Request medical aid (as needed). * 2. Squad Leaders report personnel status of squad. + <ol style="list-style-type: none"> a. Account for all assigned or attached personnel. b. Prepare DA Form 1156 (Casualty Feeder Report) for killed or wounded soldiers (body under US control). c. Prepare DA Form 1155 (Witness Statement on individual) for captured or missing soldiers (body not under US control). d. Forward reports and completed forms to company CP. * 3. Platoon Leader/PSG processes strength information. <ol style="list-style-type: none"> a. Consolidates squad personnel reports. b. Records SITREPS and other personnel information. c. Directs cross leveling training to fill critical positions caused by casualties. d. Collects casualty reports (DA Forms 1155 and 1156). e. Updates battle roster/platoon strength accountability system. f. Determines critical replacement requirements. g. Prepares strength report IAW the unit SOP. * 4. Platoon Leader/PSG processes replacements. <ol style="list-style-type: none"> a. Briefs replacements on mission, tactical situation, platoon policies and procedures, specific duties, and site/platoon orientation. b. Enters soldiers' names, MOS and duty position onto platoon accountability system/ battle roster. c. Inspects soldiers for combat critical clothing and equipment. d. Arranges for issue of missing required items of combat critical clothing and equipment. e. Implements buddy system. f. Arranges for movement of soldiers to assignments. * 5. Platoon Leader/PSG reports personnel status. + 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
a. Forwards completed DA Forms 1155 and 1156.		
b. Transmits strength report and other requested personnel information.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	081-831-1005	PREVENT SHOCK
STP 21-24-SMCT	081-831-1016	PUT ON A FIELD OR PRESSURE DRESSING
	071-430-0007	CONSOLIDATE A PLATOON FOLLOWING ENEMY CONTACT WHILE IN THE DEFENSE
	071-430-0008	REORGANIZE A PLATOON FOLLOWING ENEMY CONTACT WHILE IN THE DEFENSE
STP 21-I-MQS	121-030-3534	REPORT CASUALTIES
	O3-0170.01-1005	Perform Wartime Strength Accounting at Unit Level

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: PERFORM UNIT LEVEL MAINTENANCE (43-2-C322.06-A000)

(FM 43-5)	(AR 220-1)	(AR 385-10)
(AR 385-30)	(AR 385-40)	(AR 700-138)
(AR 750-1)	(DA PAM 738-750)	(FM 10-69)
(FM 20-22)		

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is tactically deployed and is currently engaged in combat. Unit maintenance personnel receive requests to repair inoperative equipment. The unit maintenance area is established. Required tools, repair parts, equipment, and personnel are available. Operators are performing preventive maintenance checks and services (PMCS) on the equipment. Recovery operations with injured operators on board may be required. The company TSOP is available. Some iterations of this task are performed in MOPP 4. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Unit vehicles and equipment are maintained in an operational ready status IAW unit TSOP, applicable ARs/FMs and commander's guidance.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. Battery commander/motor officer directs unit maintenance program. + <ul style="list-style-type: none"> a. Monitors implementation of unit maintenance program. b. Monitors unit operational levels by reviewing vehicle and equipment status reports. c. Identifies current or anticipated maintenance problems. d. Coordinates resolution of maintenance problems with higher headquarters. e. Requests control substitution approval from higher headquarters. f. Approves emergency field repairs. g. Prepares materiel condition status reports. h. Conducts periodic inspections of personnel and equipment to ensure safety program is enforced. * 2. Platoon/section leaders supervise operator maintenance. + <ul style="list-style-type: none"> a. Monitor performance of PMCS. b. Inspect vehicle, weapons and equipment. c. Coordinate maintenance assistance with the unit maintenance section. d. Monitor equipment repair parts status. e. Request approval for emergency field repairs. f. Maintain maintenance status of vehicle, weapons, and equipment. g. Provide input for materiel condition status report. 3. Battery personnel perform operator maintenance. + <ul style="list-style-type: none"> a. Perform PMCS. b. Notify supervisor of maintenance problems beyond operator's capability. c. Perform emergency field repairs. d. Assist unit maintenance personnel with repairs and services. * 4. Motor sergeant supervises unit maintenance personnel. + <ul style="list-style-type: none"> a. Organizes unit maintenance personnel to perform unit maintenance activities. b. Supervises the Army maintenance management system (TAMMS) and prescribed load list (PLL) procedures for completeness and accuracy. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> c. Supervises repair and inspection procedures to ensure they are done safely and IAW appropriate references. d. Requests approval for BDAR from battery commander when established repair procedures can not be used. e. Supervises BDAR procedures to ensure procedures are done IAW appropriate BDAR manuals. f. Requests approval to use controlled exchange from battery commander when required repair parts are not available. g. Supervises use of controlled exchange for compliance with commander's guidance. h. Supervises recovery operations to ensure correct recovery and safety procedures are used. i. Supervises Army Oil Analysis Program (AOAP) procedures to ensure testing of oil samples is done at required intervals. j. Coordinates maintenance status with platoon/section leaders. k. Provides unit maintenance status to battery commander. <p>5. Unit maintenance personnel repair organic equipment. +</p> <ul style="list-style-type: none"> a. Diagnose faults on inoperative equipment. b. Request required repair parts to complete the repair from PLL clerk. c. Repair equipment IAW applicable TM(s). d. Request approval for BDAR through the motor sergeant when established repair procedures can not be used. e. Perform BDAR IAW appropriate BDAR manual. f. Request approval for controlled exchange through motor sergeant when required repair parts are not available. g. Perform controlled exchange. h. Perform final inspection to ensure quality control of repairs. i. Record completed work on appropriate document(s). j. Employ safety procedures to minimize accidents. <p>6. Unit maintenance personnel conduct transactions with support maintenance. +</p> <ul style="list-style-type: none"> a. Identify category of repair. b. Correct unit level deficiencies. c. Prepare required documentation for submission to support maintenance. d. Evacuate equipment to support maintenance. e. Verify completion of repairs. f. Pick up equipment upon completion of repairs. <p>7. Unit maintenance personnel perform administrative support functions. +</p> <ul style="list-style-type: none"> a. Maintain PLL. b. Request repair parts for unit equipment. c. Perform required AOAP tasks. d. Turn in unserviceable repairable items. e. Maintain document registers. f. Maintain maintenance control records. g. Maintain technical publications on all organic equipment. h. Maintain tools and test equipment. i. Maintain power generation equipment. <p>8. Maintenance personnel recover disabled vehicles. +</p> <ul style="list-style-type: none"> a. Verify location of disabled vehicles. b. Move on a concealed route to disabled vehicles. c. Inspect vehicles to determine required parts. d. Repair vehicles on site. e. Evacuate non repairable vehicles to unit maintenance area. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
9. Maintenance personnel react to battle damaged vehicle (recoverable) within a hostile area. + <ul style="list-style-type: none"> a. Request covering fire. b. Move on a concealed route to disabled vehicle. c. Tow vehicle to a concealed location. d. Remove casualties from vehicle. e. Perform self aid/buddy aid. f. Request medical assistance, if required. g. Evacuate casualties. h. Perform battle damage assessment. i. Repair vehicle, if possible. j. Recover non repairable vehicle. 		
10. Maintenance personnel react to battle damaged vehicle (unrecoverable) within a hostile area. + <ul style="list-style-type: none"> a. Request direct and supporting fire. b. Move on a concealed route to disabled vehicle. c. Remove casualties form vehicle. d. Treat casualties. e. Request medical assistance, if required. f. Evacuate casualties. g. Request disposition of unrecoverable vehicle from battery commander. h. Conduct salvage operations. i. Prepare vehicle for destruction. j. Destroy vehicle on order from commander or designated representative. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

“**” indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-1-SMCT	551-721-1352	Perform Vehicle Preventive Maintenance Checks and Services (PMCS)
STP 21-24-SMCT	091-309-0710	SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES
	091-309-0711	DIRECT VEHICLE AND EQUIPMENT RECOVERY OPERATIONS
STP 21-I-MQS	03-4651.90-0001	Supervise Training and Licensing of Unit Equipment Operators
	03-4966.90-0010	Supervise Preventive Maintenance Checks and Services
	03-4976.90-0501	Prepare a Materiel Condition Status Report
	03-4995.90-0010	Direct Vehicle and Equipment Recovery Operations
	03-5101.00-0283	Supervise the Maintenance of Unit Prescribed Load List

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 9-63B35-SM-TG	091-309-0626	Supervise the maintenace test, measurement, and diagnostic equipment
	091-309-0633	PREPARE MATERIAL CONDITION STATUS REPORT
	091-309-0671	INSPECT MOTOR EQUIPMENT UTILIZATION RECORD (DD FORM 1970)
	091-309-0673	INSPECT PREVENTIVE MAINTENANCE RECORD SCHEDULE AND RECORD, DD FORM 314
	091-309-0680	INSPECT RECORD OF DEMANDS
	091-309-0685	PREPARE ACCIDENT REPORT (DA FORM 285)
	091-309-0698	INSPECT UNIT DEMANDS SUMMARY LISTING (AUTOMATED)
	091-309-0700	INSPECT RECONCILIATION LISTING (AUTOMATED)
	091-309-2026	INSPECT OIL ANALYSIS REQUEST (DD FORM 2026)

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY HEADQUARTERS
 MAINTENANCE SECTION
 BATTERY MAINTENANCE SECTION

TASK: MANAGE UNIT MAINTENANCE OPERATIONS (43-2-C323.06-A001)
 (FM 43-5)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit has deployed with all organic equipment. The need to maintain the equipment is inherent to the mission success. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Leaders supervise unit maintenance activities and maintain an operational readiness rate consistent with tactical mission requirements IAW commander's priorities and approved SOP.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The Commander supervises unit maintenance activity. + <ul style="list-style-type: none"> a. Develops maintenance SOP. b. Establishes maintenance priorities. c. Monitors maintenance performed on individual and TOE equipment. d. Monitors equipment status, PMCS, Army oil analysis program (AOAP), and personnel shortages. e. Inspects personnel and equipment to enforce safety measures and use of equipment. 2. Maintenance personnel conduct a quality control program. + <ul style="list-style-type: none"> a. Perform initial inspection and record results. b. Perform in process and final inspections. c. Review maintenance records. d. Verify inspection procedures. e. Inspect calibrated equipment. * 3. Maintenance supervisors and/or personnel implement a safety program. + <ul style="list-style-type: none"> a. Brief personnel on safety program. b. Conduct safety inspections. c. Inspect disabled equipment for safety hazards. d. Enforce safety procedures. e. Report and investigate accidents or mishaps. f. Maintain files on all safety inspections and accident reports. * 4. Maintenance officer or supervisor supervises PLL operations. + <ul style="list-style-type: none"> a. Verifies PLL accuracy. b. Inspects document register. c. Inspects PLL list for approving authority signature. 5. Calibration team monitors calibration program. + <ul style="list-style-type: none"> a. Develops and monitors calibration schedule. b. Advises supporting calibration facility of new or additional equipment. c. Prepares calibration data cards. d. Verifies maintenance of equipment. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	091-309-0710	SUPERVISE PREVENTIVE MAINTENANCE CHECKS AND SERVICES
	091-309-0711	DIRECT VEHICLE AND EQUIPMENT RECOVERY OPERATIONS
STP 9-63B35-SM-TG	091-309-0626	Supervise the maintenance test, measurement, and diagnostic equipment
	091-309-0633	PREPARE MATERIAL CONDITION STATUS REPORT
	091-309-0671	INSPECT MOTOR EQUIPMENT UTILIZATION RECORD (DD FORM 1970)
	091-309-0673	INSPECT PREVENTIVE MAINTENANCE RECORD SCHEDULE AND RECORD, DD FORM 314
	091-309-0680	INSPECT RECORD OF DEMANDS
	091-309-0685	PREPARE ACCIDENT REPORT (DA FORM 285)
	091-309-0698	INSPECT UNIT DEMANDS SUMMARY LISTING (AUTOMATED)
	091-309-0700	INSPECT RECONCILIATION LISTING (AUTOMATED)
	091-309-2026	INSPECT OIL ANALYSIS REQUEST (DD FORM 2026)

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: TANK CO FIST
 MECH INF CO FIST
 CAV/TRP FIST
 COLT
 TRP FIST

TASK: PARTICIPATE IN REHEARSAL OPERATIONS (COMPANY FIRE SUPPORT TEAM) (06-1-A049)

(FM 6-71)
 (FM 6-20-50)

(FM 6-20-20)

(FM 6-20-40)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The company/troop is preparing for combat operations. The OPORD (which included the fire support plan) has been written, briefed and disseminated. The company/troop commander has provided rehearsal guidance and indicated the type of rehearsal to be conducted. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The FIST participates in combined arms and FS rehearsal IAW the unit TSOP, FS execution matrix and company FSO directions.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The company FSO attends/participates in the battalion task force combined arms rehearsal with the company/troop commanders. + * 2. The company FSO ensures FOs attend/participate in company/troop rehearsals with platoon leaders. + * 3. The company FSO ensures the FS execution matrix is used by the FIST as the base document for the rehearsal process. + * 4. The company FSO ensures the following are highlighted during the combined arms rehearsal: <ul style="list-style-type: none"> a. FS plan and maneuver plan are rehearsed concurrently for synchronization. + b. Target execution responsibilities for primary and backup observers. c. Verifies triggers points with conditions to fire. + d. EFSTs/targets are addressed to ensure understanding of its purpose, method of accomplishment and desired end state in relation to the maneuver plan. + e. Discusses mortar positioning and movement plan. f. Implementation of FSCMs. g. Discusses observation plan. + h. Corrections and refinements to the FS plan. + i. Validation of engagements of criteria and areas. * 5. During the FS rehearsal, the company FSO accomplishes the following: + <ul style="list-style-type: none"> a. Confirms communications (voice/digital) to observers, FSEs, FDCs and other FS agencies. b. Executes EFSTs/targets from sensors to shooters. c. Verifies observation plan. d. Validates and adjusts triggers. e. Loads high priority targets in computer buffers. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
f. FSCMs are implemented and verified.		
* 6. The company FSO recaps all critical fire support events.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13F14-SM-TG	061-283-2051	SELECT AND OCCUPY AN OBSERVATION POST
	061-284-3004	Advise Supported Unit of Friendly Fire Support Capabilities and Limitations
	061-284-3046	Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements
	061-284-3220	Establish the Fire Support Team (FIST) Headquarters Communications
	061-284-3226	Produce Company Fire Support Plan
	061-284-3227	Process Forward Observer Target Lists
	061-284-5006	CONDUCT A MOVING TARGET MISSION
	061-301-5009	Process Mission Data as a Fist Using the AN/PSG-7
	061-301-8000	Prepare the AN/PSG-7 for Operation
	STP 6-13F14-SM-TG(VER11)	061-283-2051
061-284-3004		Advise Supported Unit of Friendly Fire Support Capabilities and Limitations
061-284-3046		Pass Fire Support Information to Lower, Adjacent, and Higher Field Artillery Elements
061-284-3220		Establish the Fire Support Team (FIST) Headquarters Communications
061-284-3226		Produce Company Fire Support Plan
061-284-3227		Process Forward Observer Target Lists
061-284-5006		CONDUCT A MOVING TARGET MISSION
061-301-5009		Process Mission Data as a Fist Using the AN/PSG-7
	061-301-8000	Prepare the AN/PSG-7 for Operation

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: FIRE DIRECTION CENTER

TASK: COMMAND AND CONTROL DELIVERY OF FIRES (06-1-W103)
 (FM 6-20) (FM 6-50) (FM 6-60)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Given a FA Battalion conducting combat operations. FA Battalion attack guidance and fire artillery support plan have been received and implemented from higher HQ and disseminated to the BTRY FDC for implementation. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The FA Battalion receives and executes the FA attack guidance and fire support coordinating measures. The FA Battalion disseminates the FASP and the Btry directs and coordinates all requests for fire IAW FASP.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
* 1. The Battle Staff coordinates the battalion delivery of fires based on Field Artillery Support Plan. + <ul style="list-style-type: none"> a. Attack criteria has been entered b. Geometries have been entered c. FASP has been disseminated to Btry (voice or digital). 2. The Btry directs and coordinates all fires IAW Field Artillery Support Plan to include the following: <ul style="list-style-type: none"> a. Btry has verified receipt of FASP (voice or digital) b. Scheme of maneuver c. communications requirements d. Target attack criteria and FSCMs have been entered. 3. The Btry informs controlling HQ if unable to complete assigned missions.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
No STP and No MOS	061-279-5004	Process Request for Database Information Using AFC/DS (M109A6)
	061-288-5201	Verify Operational Graphics on a Map (Version 11)
	061-288-5300	Control the Input to an MLRS Database (Version 11)
	061-288-5303	Control MLRS Fire Plan(s) (Version 11)

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13C14-SM-TG	061-288-5304	Control the Conduct of MLRS Fire Mission(s)(Version 11)
	061-288-5401	Manage MLRS Fire Plan (s) (Version 11)
	061-288-5402	Manage MLRS Fire Mission (s) (Version 11)
	061-275-8006	Operate as a Net Control Station (NCS)
	061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5008	Enter the Field Artillery Support Plan Text (AFATDS Units)
	061-300-5013	Enter the Commander's Guidance into the TAFCS (AFATDS Units)
	061-300-5014	Prepare the TAFCS for Fire Mission Processing (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)
	061-300-5017	Process Schedule of Fires (AFATDS Units)
	061-300-5021	Set Mission Critical List (AFATDS Units)
061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)	
STP 6-13D14-SM-TG	061-275-8006	Operate as a Net Control Station (NCS)
	061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals
	061-279-5017	Maintain Operational Graphics on a Map
	061-300-5002	Establish TAFCS Communications Configurations (AFATDS Units)
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5008	Enter the Field Artillery Support Plan Text (AFATDS Units)
	061-300-5013	Enter the Commander's Guidance into the TAFCS (AFATDS Units)
	061-300-5014	Prepare the TAFCS for Fire Mission Processing (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)
	061-300-5017	Process Schedule of Fires (AFATDS Units)
	061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)
	STP 6-13E13-SM-TG	061-279-5003
061-279-5013		Process a Fire Plan Using the AFC/DS
061-279-5017		Maintain Operational Graphics on a Map
061-279-5018		Execute Schedule of Fires
061-280-5000		Prepare to Process Fire Mission in Degraded Mode (Manual)
061-280-5003		Supervise Preparation of Fire Mission Processing in Degraded Mode (Manual)

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-280-5004	Supervise Fire Mission Processing in Degraded Mode (Manual)
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5014	Prepare the TAFCS for Fire Mission Processing (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)
	061-300-5021	Set Mission Critical List (AFATDS Units)
STP 6-13F14-SM-TG	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5008	Enter the Field Artillery Support Plan Text (AFATDS Units)
	061-300-5013	Enter the Commander's Guidance into the TAFCS (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)
	061-300-5017	Process Schedule of Fires (AFATDS Units)
	061-300-5021	Set Mission Critical List (AFATDS Units)
	061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)
STP 6-13F14-SM-TG(VER11)	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5008	Enter the Field Artillery Support Plan Text (AFATDS Units)
	061-300-5013	Enter the Commander's Guidance into the TAFCS (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5016	Process Fire Mission with the TAFCS (AFATDS Units)
	061-300-5017	Process Schedule of Fires (AFATDS Units)
	061-300-5021	Set Mission Critical List (AFATDS Units)
	061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)
STP 6-13P14-SM-TG	061-275-8006	Operate as a Net Control Station (NCS)
	061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals
	061-287-1973	Process MLRS Fire Mission (s)
	061-287-5003	Process Map Modification Message(s)
	061-287-5004	Maintain Operational Graphics on a Map
	061-287-5005	Process Meteorological Messages
	061-287-5006	Process Battlefield Geometry
	061-287-5007	Process Ammunition/Fire Unit (AMMO/FU) Messages
	061-287-5010	Process Multiple Launch Rocket System (MLRS) Fire Plan(s)
	061-287-5011	Verify Operational Graphics on a Map
	061-287-5018	Manage MLRS Fire Plan (s)

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-287-5019	Manage MLRS Fire Mission(s)
	061-287-5020	Control MLRS Fire Plan(s)
	061-287-5021	Control the Conduct of MLRS Fire Mission(s)
	061-287-5022	Control the Input to an MLRS Database
	061-288-5102	Maintain Operational Graphics on a Map(Version 11)
	061-288-5104	Process MLRS Fire Mission (s) (Version 11)
	061-288-5107	Process Meteorological Data (Version 11)
	061-288-5108	Process Battlefield Geometry (Version 11)
	061-288-5109	Process Ammunition/ Fire Unit Message(s)
	061-288-5110	Process MLRS Fire Plan(s) (Version 11)
STP 6-82C14-SM-TG	061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY
BATTERY HEADQUARTERS

TASK: ESTABLISH AND MAINTAIN COMMUNICATIONS (06-2-A000.06-C000)
 (FM 24-19) (ACP 125) (ACP 125 US SUPPL 1)
 (ACP 125(E)) (FM 24-18) (FM 24-35 (O))
 (FM 24-35-1) (FM 6-50) (FM 6-60)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The unit is conducting combat operations and has radios, extracts of the signal operating instructions (SOI), and communications security (COMSEC) materiel. All systems are operational. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The unit communicates internally with all organic elements and externally with its controlling HQ IAW TSOP, SOI and applicable FMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. Radio operators prepare radios for operation as follows: + <ol style="list-style-type: none"> a. Secure radio in mount. b. Connect audio accessories. c. Install antenna. d. Perform operational checks of radio. 2. Radio operators make initial entry into net as follows: + <ol style="list-style-type: none"> a. Obtain appropriate call signs, suffixes, and frequency from SOI. b. Enter radio net. c. Authenticate when challenged by net control station (NCS). 3. Radio operators recognize frequency interference. <ol style="list-style-type: none"> a. Determine if electronic countermeasures (ECM) are being employed. b. Check for accidental or unintentional interference. c. Check for intentional interference. 4. Radio operators initiate prescribed electronic protection (EP) procedures. <ol style="list-style-type: none"> a. Disconnect the antenna. b. Identify the type of noise. <p>NOTE: SINCGARS cannot be tuned above or below the normal frequency if properly used.</p> <ol style="list-style-type: none"> c. Tune the receiver above or below the normal frequency. d. Identify jamming signals. e. Report interference received to leader. f. Employ anti-jamming measures. <ol style="list-style-type: none"> 5. Radio operators recognize and prevent imitative electronic deception. <ol style="list-style-type: none"> a. Identify intentional insertion of electromagnetic energy into transmission paths with objective of deceiving operators. b. Use properly authenticated aids to ensure that the enemy cannot enter your net. c. Challenge when suspected enemy are in the net. 6. Radio operators employ EP. + <ol style="list-style-type: none"> a. Use COMSEC secure equipment if available. b. Set COMSEC equipment for proper code. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>c. Safeguard COMSEC equipment and materiel when COMSEC is used. d. Use only approved radiotelephone procedures. e. Use challenge and reply authentication, as required by SOI. f. Use approved codes and brevity list. Encrypt and decrypt grid coordinates using SOI (optional if on a secure net). g. Keep length and number of transmissions to a minimum with an objective of no more than 20 seconds per transmission. h. Use the lowest power setting required to communicate with desired stations. i. Use correct call signs and procedures. j. Observe periods of radio listening silence. k. Adhere to net discipline. l. Use terrain to mask signal when possible.</p> <p>7. The operations center makes initial entry into the internal/external nets and does the following: + a. Establishes communications in low power with higher HQ and subordinate elements. Goes to medium/high power only if necessary. b. Acts as NCS on internal nets. c. Enters external nets (reply to authentication challenge from NCS). d. Uses challenge and reply authentication to ensure valid response before acting on orders or information (optional if on a secure net). e. Requests permission from NCS to leave the net, as required. f. Uses RETRANS frequency, if necessary, to communicate with controlling HQ. (The RETRANS must be operational and established by controlling HQ.) g. Conducts mobile subscriber equipment (MSE) voice and digital communications check with higher HQ.</p> <p>8. The unit makes initial entry into the appropriate nets IAW TSOP. +</p> <p>9. The unit improves electronic line of sight by installing range enhancing antennas and/or directional antennas if necessary and does the following: a. Selects antenna site away from power lines and power generating equipment and uses terrain masking. b. Installs range enhancing antennas. c. Ensures antennas do not touch tree limbs or other surrounding objects. d. Accomplishes the transition from whip antenna to range enhancing antennas without interruption of communications. e. Conducts frequency and COMSEC variable change IAW SOI or as directed by higher HQ.</p>		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
No STP and No MOS	061-275-2001	Employ Field Artillery Communications Systems
	061-299-5000	Prepare TAFCS for Operation
	061-300-5002	Establish TAFCS Communications Configurations (AFATDS Units)
STP 21-24-SMCT	113-587-2001	Operate Radio Set AN/PRC-77 or AN/PRC-25
	113-572-4008	TRANSMIT A VOICE UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
	113-572-5005	RECEIVE A VOICE UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
	113-572-6005	WRITE A UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
	113-572-6006	READ A UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
	113-573-0002	CONDUCT OPERATIONS SECURITY (OPSEC) PROCEDURES
	113-573-8006	USE AN AUTOMATED SIGNAL OPERATION INSTRUCTION (SOI)
STP 3-54B34-SM-TG	113-587-2061	Operate Radio Set AN/VRC-64 or AN/GRC-160 with TSEC/KY-57
STP 6-13B24-SM-TG	061-275-8014	Supervise the Operation of SINGARS
	113-573-4006	USE THE KTC 1400(*) NUMERAL CIPHER AND AUTHENTICATION SYSTEM
	113-587-2061	Operate Radio Set AN/VRC-64 or AN/GRC-160 with TSEC/KY-57
STP 6-13C14-SM-TG	061-275-8006	Operate as a Net Control Station (NCS)
	061-300-5009	Perform Troubleshooting Procedures on the TAFCS (AFATDS Units)
	061-300-5011	Process Messages for Transmission (AFATDS Units)
	061-300-5018	Supervise Preparation of TAFCS (AFATDS Units)
	061-300-5019	Supervise Operation of TAFCS (AFATDS Units)
	061-300-5022	Update the Master unit List (AFATDS Units)
	061-300-5023	Direct TAFCS Operations (AFATDS Units)
	113-596-1017	CONSTRUCT A FIELD EXPEDIENT ANTENNA FOR TACTICAL FM RADIO
113-596-1068	INSTALL ANTENNA GROUP OE-254/GRC(Team Method)	
STP 6-13D14-SM-TG	061-275-8006	Operate as a Net Control Station (NCS)
STP 6-13E13-SM-TG	061-275-8004	Operate SINGARS ICOM w/VIC-1
	061-279-5003	Maintain Communication Using the AFC/DS
STP 6-13F14-SM-TG	061-275-8013	Construct Field Expedient Antennas
	061-276-1012	Install Antenna Group OE-254/GRC
	113-587-2061	Operate Radio Set AN/VRC-64 or AN/GRC-160 with TSEC/KY-57
	061-275-8013	Construct Field Expedient Antennas
STP 6-13F14-SM-TG(VER11)	061-276-1012	Install Antenna Group OE-254/GRC
	113-587-2061	Operate Radio Set AN/VRC-64 or AN/GRC-160 with TSEC/KY-57

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13M14-SM-TG	113-587-2061	Operate Radio Set AN/VRC-64 or AN/GRC-160 with TSEC/KY-57
STP 6-13P14-SM-TG	061-275-8006	Operate as a Net Control Station (NCS)
	061-275-8008	Operate Improved High Frequency Radio (IHFR) Sets
	061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals
	061-275-8016	Supervise the Operation of Improved High Frequency Radio (IHFR) Sets
	061-276-1010	Install Antenna Group OE-303
	061-287-1031	Power up and Initialize the Fire Direction Data Manager (FDDM)
	061-287-1032	Process Multiple Authenticators for a Subscribers(s) Using the SYS;MAUTH Message
	061-287-1033	Re-synchronize with a Subscriber Using the SYS;SERIAL or SYS;AUTHNT Message
	061-287-1044	Shutdown and Restart the Fire Direction Data Manager Following a Power Failure
	061-287-1048	Perform Operator Maintenance on the Fire Direction Data Manager
	061-287-1945	Shutdown the Fire Direction System(LCU)
	061-287-2032	Direct Operator Maintenance of the MLRS FDS
	061-287-2037	Direct Operator Maintenance of the MLRS Fire Direction Data Manager
	061-287-2038	Direct Corrective Action on FDDM Error and Warning Messages
	061-287-3057	Perform Disk Maintenance Functions Using the DPU;DISK Message
	061-287-5001	Prepare the Fire Direction System (FDS) for Operation
	061-287-5002	Initialize the Fire Direction System (FDS)
	061-287-5003	Process Map Modification Message(s)
	061-287-5008	Process Request Messages
	061-287-5009	Process Special Reports
061-287-5010	Process Multiple Launch Rocket System (MLRS) Fire Plan(s)	
061-287-5012	Verify Fire Direction System (FDS) Initialization	
061-287-5014	Update BIOS Set-up Data	
061-287-5015	Verify BIOS Set-up Data	
061-287-5016	Verify Multiple Launch Rocket System (MLRS) Fire Direction System (FDS) Data Base	
061-287-5023	Advice Supported Unit of MLRS Capabilities and Limitations.	
STP 6-13R14-SM-TG	113-587-2061	Operate Radio Set AN/VRC-64 or AN/GRC-160 with TSEC/KY-57

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY
BATTERY HEADQUARTERS

TASK: PREPARE FOR COMBAT (06-2-A098)
(FM 100-5) (FM 7-10 (HTF)) (FM 7-7J)
(FM 7-8 (HTF))

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is performing tactical operations. A new mission is received requiring the battery to prepare a warning order/OPORD/FRAGO. Combat may involve offensive or defensive operations. Continuous operations (day and night) are envisioned. US forces are operating under restrictive ROE. Some iterations of this task should be performed in MOPPP4.

TASK STANDARDS: The battery commander plans, coordinates and executes the battery preparation for movement into combat by the time specified in the OPOrd with all (TOE) weapons and equipment and in compliance with the ROE.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The BC receives the mission from battalion. * 2. The BC conducts steps 2 through 7 of the troop leading procedures. (See task 06-2-A099) * 3. Battery members concurrently perform personnel and equipment checks under the supervision of their leaders. + <ul style="list-style-type: none"> a. Perform maintenance, functional, and operational checks IAW applicable manuals and individual tasks. + <ul style="list-style-type: none"> (1) Vehicles (2) weapons (3) NBC equipment (4) Communications equipment (5) Night observation devices (6) Any special equipment b. Test fire weapons if the situation permits * 4. The BC issues his order to his subordinates, providing them with two thirds of the available time to develop their plans (if necessary), brief soldiers, and conduct inspections and rehearsals. + * 5. The XO or 1SG requests CS assets. * 6. The BC or his authorized representative coordinates plans and actions with higher, adjacent and supported units, including: + <ul style="list-style-type: none"> a. Fire plans b. Movement routes and times c. Current intelligence d. Control measures and FSCMs e. Communications and signals f. Time schedules g. Support requirements * 7. A key battery leader receives attachments (if applicable). <ul style="list-style-type: none"> a. Ensures attachments are briefed on: 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>(1) The battery mission and commander's intent. (2) Their specific tasks. (3) Pertinent battery SOP items. (4) The overall plan. (5) Recent enemy activities. (6) Recent battery activities.</p> <p>b. Ensures attachments are checked for mission readiness. c. Ensures individuals are linked up with subordinate leaders within the battery, as necessary.</p> <p>8. The BC supervises the mission preparation and ensures compliance with the priorities of work.</p> <p>a. Ensures subordinate elements prepare IAW unit SOPs and previous directives. + b. Directs subordinate leaders to conduct briefbacks of their plans (if applicable) to ensure his intent is understood. c. Directs the elements to prepare all field expedient equipment needed for their task (if applicable). d. Ensures key leaders conduct inspections of: + (1) Weapons and ammunition. (2) Uniforms and equipment. (3) Mission essential equipment. (4) Soldiers' knowledge and understanding of the mission and their specific responsibilities. (5) Communications. (6) Rations and water. (7) Camouflage (if applicable).</p> <p>9. The BC plans and conducts rehearsals. + a. Ensures key battery and special team actions are rehearsed as the time and situation permit. (1) May begin rehearsals of actions on contact and other SOP items before receipt of the OPORD. (2) Rehearses mission specific tasks once the order has been issued. (3) First priority for rehearsals are mission essential tasks. b. Selects the type of rehearsal based on time feasibility. (1) Full rehearsal (2) Key leader rehearsal (3) Terrain model rehearsal (4) Sketch map rehearsal (5) Map rehearsal (6) Radio rehearsal c. Identifies problem areas and contingency actions, movement reaction times, and coordination requirements. d. Ensures security is maintained (commensurate with tactical situation) during all rehearsals.</p> <p>*10. The BC plans sustainment of combat operations. + a. Determines anticipated ammunition, supply and service requirements with input from key leaders. b. Coordinates with key leaders to determine additional transportation needed to support the operation (if applicable).</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
c. Directs the XO or 1SG to coordinate with the battery supply sergeant, or battalion S4, for supply actions to support the battery's plan. The selected actions must provide adequate supplies when and where needed and not compromise the battery's security. d. Ensures the XO or 1SG requests, receives and distributes special equipment and supplies that the BC and other leaders have determined are needed. e. Establishes and enforces a rest plan for all battery personnel (especially key personnel and leaders) based on the unit SOP, mission analysis, and current orders (1) Ensures coverage of leadership positions, key unit functions, and manning of key weapons are continuous (2) The performance and judgment of leaders and key personnel are not degraded by fatigue (3) Ensures the BOC & FDC can conduct continuous operations *11. The BC monitors the actions of higher, adjacent and supported units. *12. The BC issues orders or modifies the original plan as needed. 13. The BOC reports critical combat information to higher, adjacent and supported units, as applicable. Some types of information and reports rendered are: a. SALUTE on enemy contact b. Terrain and minefield information c. Changes in the friendly situation d. Initiation of actions by the battery e. CS or CSS requests required to execute tasks f. Friendly information from other units that higher headquarters cannot monitor		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-I-MQS	O1-9007.01-0250	Brief to Inform, Persuade, or Direct
	O3-9001.10-0003	Apply the Ethical Decision-Making Process
	O3-9001.10-0004	Apply the Ethical Decision-Making Process as a Commander or Staff Officer
	O3-9001.12-0002	Communicate Effectively
	O3-9001.12-0003	Communicate Effectively as a Commander or Staff Officer
	S1-9011.04-0001	Command and Staff Functions
STP 6-13II-MQS	01-2999.99-0600	Command a Battery

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY
BATTERY HEADQUARTERS

TASK: DEVELOP AND COMMUNICATE A PLAN (06-2-A099)
(FM 100-5) (FM 7-10 (HTF)) (FM 7-8 (HTF))

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery is performing tactical operations. A new mission is received requiring the battery to prepare a warning order/OPORD/FRAGO. Combat may involve offensive or defensive operations. Continuous operations (day and night) are envisioned. US forces are operating under restrictive ROE. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The battery commander develops a plan following the eight step troop leading procedures. The plan follows the battalion commander's intent, is issued to subordinate leaders, using less than one third the time available and accomplishes the assigned mission. The battery complies with the ROE.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The BC receives a warning order from the battalion. * 2. The BC conducts an initial METT-TC analysis to determine the requirements for his warning order. + * 3. The BC issues the warning order immediately or as soon as possible to subordinate leaders. + <ul style="list-style-type: none"> a. States situation. <ul style="list-style-type: none"> (1) Enemy (2) Friendly (3) Attachments/detachments b. States mission. c. Issues general instructions <ul style="list-style-type: none"> (1) Special (2) Uniform and equipment common to all (3) Special weapons, ammo, equipment (4) Tentative time schedule to include- <ul style="list-style-type: none"> (a) Earliest time of movement (b) Time and place of OPORD (c) Probable execution time (d) Inspection times and items to be inspected (e) Rehearsal times and actions to be rehearsed (5) Additional instructions as needed d. Issue special instruction <ul style="list-style-type: none"> (1) To subordinate leaders (2) To soldiers helping prepare the OPORD (3) As needed by SOP (4) Acknowledgment of receipt * 4. The subordinate leaders issue and execute platoon warning orders IAW unit SOP and initiate troop leading procedures. * 5. The BC receives the OPORD from the battalion. <ul style="list-style-type: none"> a. Clarify any questions 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>b. Coordinate with staff personnel</p> <p>* 6. The BC performs a mission analysis. +</p> <ol style="list-style-type: none"> a. Identifies the commander's concept and intent (battalion and maneuver brigade/FA brigade/Divarty) b. Identifies specified and implied tasks c. Identifies mission essential tasks (from b., above) d. Identifies limitations (ROE, FSCMs, recon NET time, etc) e. Performs the reverse planning process (backward time line) <p>* 7. The BC produces a restated mission statement (that contains the battery's mission essential tasks and the purpose for which they were assigned). +</p> <p>* 8. The BC updates the initial warning order as necessary. +</p> <p>* 9. The BC analyzes the situation using the remaining factors of METT-TC to include: +</p> <ol style="list-style-type: none"> a. Enemy <ol style="list-style-type: none"> (1) Composition (2) Disposition (3) Recent activities (4) Possible actions against battery (5) Weaknesses b. Terrain (OAKOC formally OCOKA) <ol style="list-style-type: none"> (1) Obstacles (2) Avenues of approach (3) Key terrain (4) Observation and fields of fire (5) Cover and concealment - Weather effects on the terrain, howitzers and other equipment, and soldiers of both forces. c. Soldiers (considerations) <ol style="list-style-type: none"> (1) Current location (2) Disposition (3) Fatigue (4) Supply status (5) Personnel strength (6) Current organization for combat (7) Capabilities of attachments d. Time <ol style="list-style-type: none"> (1) Updates three time schedule (2) Considers the time specified in the schedule (3) Evaluated space and time considerations (e.g. distance from assembly area to SP (start point)) <p>*10. The BC completes his tentative plan. +</p> <ol style="list-style-type: none"> a. Summarizes enemy and friendly situation b. Includes the battery mission statement c. Identifies tasks and purposes for all applicable subordinate elements and all specified/implied tasks IAW higher's intent - Ensures the Who, What, Where, When and How of each task is planned for. d. Addresses service support actions for the operation. e. Gives chain of command and signal operating instructions. <p>*11. The BC initiates movement, as required (adv. party, selected subunits, the entire battery, as necessary).</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>*12. The BC conducts Reconnaissance, Selection and Occupation of Position actions. +</p> <ul style="list-style-type: none"> a. Requests information update from battalion staff. b. Reconnoiters to gain information on the terrain and enemy and to select battery, platoon and/or gun positions. <p>*13. The BC completes the plan (in OPORD format) based on METT-TC considerations, his reconnaissance, and other sources. +</p> <ul style="list-style-type: none"> a. States the situation. <ul style="list-style-type: none"> (1) Enemy <ul style="list-style-type: none"> (a) Disposition, composition and strength (b) Capabilities (c) Probable actions against the battery (2) Friendly <ul style="list-style-type: none"> (a) Higher unit's mission (b) Left unit's mission (c) Right unit's mission (d) Forward unit's mission unit in reserve of following (e) Units in support or reinforcing (3) Attachments or detachments b. States the mission <ul style="list-style-type: none"> (1) Mission statement should be a clear, concise statement that includes the who, what, when, where and why (purpose) of the operation, with the what describing the mission- essential tasks. c. Plans execution <ul style="list-style-type: none"> (1) General concept of the operation that ties the battery's purpose to the battalion's purpose (2) Scheme of movement for the battery (3) Details the who, what, when, where and how of each task to be accomplished (4) Includes coordinating instructions <ul style="list-style-type: none"> (a) MOPP level (b) Air defense warning and control system (c) Actions on contact (d) FSCMs (e) Report requirements (f) ROE Other instructions that apply to more than one subunit. (g) Other instructions that apply to more than one subunit. d. Plans service and support <ul style="list-style-type: none"> (1) General <ul style="list-style-type: none"> (a) Outline for the general plan of CSS - LOGPAC and ammunition loads and redistribution (b) Provides current and proposed trains locations (2) Material services <ul style="list-style-type: none"> (a) Services (b) Labor (c) Maintenance (d) Transportation (e) Supply (3) Medical evacuations <ul style="list-style-type: none"> (a) Casualty collection area (b) Methods of transporting casualties (c) Location of and route to , BN aid station and ambulance exchange points 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> (d) Casualty marking (e) NBC casualty handling (CCCP and route) (4) Personnel (as applicable) <ul style="list-style-type: none"> (a) EPW evacuation and collection point (b) Replacement instructions (c) Religious services (5) Civil military operations (6) Miscellaneous service support instructions e. Plans command and signal <ul style="list-style-type: none"> (1) Command <ul style="list-style-type: none"> (a) Location of the higher commander and CP (b) Location of Battery commander and BOC (c) Location of XO (d) Succession of command (2) Signal <ul style="list-style-type: none"> (a) SOI index in effect (b) State of listening silence (c) Methods of communication establishment in priority (d) Code words and signals <p>*14. The BC communicates the OPORD. +</p> <ul style="list-style-type: none"> a. Ensures all key leaders attend the OPORD briefing and are prepared to take notes. <ul style="list-style-type: none"> (1) XO or Platoon leaders (2) 1SG (3) FDO (4) CFB or platoon sergeants (5) Gunnery sergeant (cannon only) (6) Sections chiefs b. Develops a terrain model or sketch to assist in clarifying details of the plan. The terrain model or sketch shows the area of operations and areas of special interest (e.g., main routes, battery position areas, routes from primary to alternate positions...) c. Ensure there is no repetition of instructions that were briefed in a previous paragraph unless it is vital to clarify a task. d. Conducts brief backs with subordinate leaders immediately after the OPORD to ensure they understand their instructions. e. Ensures subordinate leaders perform lateral coordination before leaving the orders site. <p>NOTE: If in split battery operations and the Platoon Leaders prepare their own platoon OPORDs, add the following step:</p> <ul style="list-style-type: none"> f. Conducts brief back of subordinate plans once they are developed. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-I-MQS	O1-9007.01-0250	Brief to Inform, Persuade, or Direct
	O3-9001.10-0003	Apply the Ethical Decision-Making Process
	O3-9001.10-0004	Apply the Ethical Decision-Making Process as a Commander or Staff Officer
	O3-9001.12-0002	Communicate Effectively
	O3-9001.12-0003	Communicate Effectively as a Commander or Staff Officer
STP 6-13II-MQS	01-2999.99-0600	Command a Battery

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY HEADQUARTERS
 FIRE DIRECTION CENTER
 FIRING PLATOON HEADQUARTERS

TASK: ESTABLISH AND MAINTAIN A BATTERY/PLATOON OPERATIONS AND FIRE DIRECTION CENTERS (06-2-W109)
 (FM 6-60) (TM 11-5820-348-15) (TM 11-7440-283-12-1)
 (TM 11-7440-283-12-1-3)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery/platoon has occupied a position area. Current operation orders (OPORDs), field artillery support plan, and commander's guidance are available. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The BOC/POC/FDC personnel process calls for fire utilizing available ABCS . BOC/POC/FDC personnel maintain current weapon, ammunition, and situation information IAW unit TSOP and applicable FMs and TMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>1. The BOC/POC/FDC establishes and maintains communications (voice and digital) as follows: +</p> <ul style="list-style-type: none"> a. Operates FM secure radio equipment to facilitate best transmission and reception attainable. b. Installs and maintains range enhancing antennas. c. Uses remote radio siting IAW TSOP. d. Conducts voice/digital communications check with supported and supporting unit. <p>2. The BOC/POC/FDC initializes their ABCS +</p> <p>3. The FDC establishes and maintains the ABCS data base as follows: +</p> <p>NOTE: Current OPORD, OPLANS, and commander's guidance are available. Does steps a through d.</p> <ul style="list-style-type: none"> a. Inputs map modification. b. Inputs and posts battlefield geometry. c. Inputs zone of action data. d. Requests location and status data from the firing elements to include the following: <ul style="list-style-type: none"> (1) Weapons status and Battery/platoon center. (2) Firing points. (3) Survey control point locations. (4) Hide location. (MLRS only) (5) Ammunition storage sites/Rearm points (MLRS only) (6) Ammunition Data (7) Muzzle velocity information (cannon only) e. Reviews and enters observer locations (cannon only) f. Transmits automatically generated messages to higher HQ. g. Checks met data. h. Executes met data. i. Ensures that down range masks are entered in the database. j. Verifies operational data inputted. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>4. The BOC/POC/FDC prepares and updates situation maps, fire mission logs, overlays, and firing capability charts to include the following:</p> <ul style="list-style-type: none"> a. Establishes a situation map with maneuver control and fire support coordinating measures plotted. b. Updates situation map continually as the situation develops. c. Seeks information from higher HQ to keep the map current. d. Maintains locations of friendly units. e. Maintains fire mission log. f. Maintains and updates firing capability charts. g. Prepares and updates target overlay. h. Maintains and updates battlefield geometry plots. i. Maintains ammunition status. j. Prepare and update current safety data. <p>5. The BOC/POC personnel coordinate and control logistical operations IAW commanders guidance as follows: +</p> <ul style="list-style-type: none"> a. Receive and process requests from subordinate elements. b. Coordinate with higher HQ to process logistic support. c. Brief and dispatch logistical elements. d. Provide higher HQ logistic with status reports IAW TSOP. <p>6. The BOC/POC personnel receive/disseminate tactical information from higher HQ and subordinate elements IAW commander's guidance and TSOP. +</p> <p>7. The BOC/POC/FDC performs operator and organizational maintenance on assigned equipment IAW TMs.</p>		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

“*” indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
No STP and No MOS	061-279-5004	Process Request for Database Information Using AFC/DS (M109A6)
	061-279-5016	Verify the Procedures for Requesting Unit Information Using AFC/DS
	061-280-5001	Process Fire Mission in Degraded Mode (Manual)
	061-288-5118	Process Special Reports (Version 11)
	061-288-5201	Verify Operational Graphics on a Map (Version 11)
	061-288-5202	Verify Fire Direction System (FDS) Initialization (Version 11)
	061-288-5301	Verify BIOS Set-up Data (Version 11)
	061-288-5400	Verify Reporting of Tactical Platoon Status (Version 11)

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	061-299-5011	Supervise Preparation of the TAFCS
	061-299-5013	Direct TAFCS Preparation
	061-299-5014	Direct TAFCS Operations
	071-329-1004	Determine the Elevation of a Point on the Ground Using a Map
	071-329-1014	Locate an Unknown Point on a Map and on the Ground by Intersection
STP 6-13B24-SM-TG	071-329-1015	Locate an Unknown Point on a Map and on the Ground by Resection
	551-721-3334	Supervise Preventive Maintenance Checks and Services (PMCS)
STP 6-13C14-SM-TG	061-275-8015	Supervise SINCGARS Net Control Station (NCS) Procedures
STP 6-13D14-SM-TG	061-299-5005	Process Meteorological Data
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5009	Perform Troubleshooting Procedures on the TAFCS (AFATDS Units)
	061-300-5013	Enter the Commander's Guidance into the TAFCS (AFATDS Units)
	061-300-5018	Supervise Preparation of TAFCS (AFATDS Units)
	061-300-5019	Supervise Operation of TAFCS (AFATDS Units)
	061-300-5021	Set Mission Critical List (AFATDS Units)
	061-300-5026	Plan an Operational Move with the TAFCS (AFATDS Units)
	061-275-8015	Supervise SINCGARS Net Control Station (NCS) Procedures
	061-279-5017	Maintain Operational Graphics on a Map
	061-299-5005	Process Meteorological Data
	061-299-5015	Write the Automated Fire Support Tab to the Fire Support Plan of an OPORD
061-300-5000	Prepare the TAFCS for Operation (AFATDS Units)	
061-300-5001	Configure the TAFCS Database (AFATDS Units)	
061-300-5002	Establish TAFCS Communications Configurations (AFATDS Units)	
061-300-5003	Incorporate the Printer into the TAFCS (AFATDS Units)	
061-300-5004	Perform TAFCS Software Utility Functions (AFATDS Units)	
061-300-5005	Update TAFCS Map Functions (AFATDS Units)	
061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)	
061-300-5007	Update Unit Data in TAFCS (AFATDS Units)	
061-300-5009	Perform Troubleshooting Procedures on the TAFCS (AFATDS Units)	

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-300-5013	Enter the Commander's Guidance into the TAFCS (AFATDS Units)
	061-300-5018	Supervise Preparation of TAFCS (AFATDS Units)
	061-300-5019	Supervise Operation of TAFCS (AFATDS Units)
	061-300-5026	Plan an Operational Move with the TAFCS (AFATDS Units)
	071-329-1014	Locate an Unknown Point on a Map and on the Ground by Intersection
	071-329-1015	Locate an Unknown Point on a Map and on the Ground by Resection
STP 6-13E13-SM-TG	061-279-5000	Prepare the AFC/DS for Operation
	061-279-5003	Maintain Communication Using the AFC/DS
	061-279-5005	Process an Area Fire Mission with the AFC/DS
	061-279-5007	Process a Priority Fire Mission using the AFC/DS
	061-279-5008	Process Registrations with the AFC/DS
	061-279-5014	Supervise Operation of the AFC/DS
	061-279-5017	Maintain Operational Graphics on a Map
	061-279-5100	Identify Message Formats from the SYS;MSGSUM
	061-280-5000	Prepare to Process Fire Mission in Degraded Mode (Manual)
	061-280-5006	Compute Muzzle Velocity Information (Manual)
	061-280-5007	Perform FDC Advance Party Procedures
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5009	Perform Troubleshooting Procedures on the TAFCS (AFATDS Units)
	061-300-5018	Supervise Preparation of TAFCS (AFATDS Units)
	061-300-5019	Supervise Operation of TAFCS (AFATDS Units)
	061-300-5021	Set Mission Critical List (AFATDS Units)
	551-721-3334	Supervise Preventive Maintenance Checks and Services (PMCS)
STP 6-13F14-SM-TG	061-299-5000	Prepare TAFCS for Operation
	061-299-5002	Maintain Support Data
	061-299-5004	Maintain TAFCS Communications
	061-299-5006	Perform Continuity of Operations
	061-299-5009	Process Artillery Target Intelligence Data
	061-300-5000	Prepare the TAFCS for Operation (AFATDS Units)
	061-300-5001	Configure the TAFCS Database (AFATDS Units)
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-300-5009	Perform Troubleshooting Procedures on the TAFCS (AFATDS Units)
	061-300-5013	Enter the Commander's Guidance into the TAFCS (AFATDS Units)
	061-300-5021	Set Mission Critical List (AFATDS Units)
	061-300-5026	Plan an Operational Move with the TAFCS (AFATDS Units)
	071-329-1014	Locate an Unknown Point on a Map and on the Ground by Intersection
	071-329-1015	Locate an Unknown Point on a Map and on the Ground by Resection
STP 6-13F14-SM-TG(VER11)	061-299-5000	Prepare TAFCS for Operation
	061-299-5002	Maintain Support Data
	061-299-5004	Maintain TAFCS Communications
	061-299-5006	Perform Continuity of Operations
	061-299-5009	Process Artillery Target Intelligence Data
	061-300-5000	Prepare the TAFCS for Operation (AFATDS Units)
	061-300-5001	Configure the TAFCS Database (AFATDS Units)
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5009	Perform Troubleshooting Procedures on the TAFCS (AFATDS Units)
	061-300-5013	Enter the Commander's Guidance into the TAFCS (AFATDS Units)
	061-300-5021	Set Mission Critical List (AFATDS Units)
	061-300-5026	Plan an Operational Move with the TAFCS (AFATDS Units)
	071-329-1014	Locate an Unknown Point on a Map and on the Ground by Intersection
	071-329-1015	Locate an Unknown Point on a Map and on the Ground by Resection
STP 6-13P14-SM-TG	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-275-8006	Operate as a Net Control Station (NCS)
	061-275-8008	Operate Improved High Frequency Radio (IHFR) Sets
	061-275-8009	Operate Mobile Subscriber Radio-Telephone Terminals
	061-275-8015	Supervise SINCGARS Net Control Station (NCS) Procedures
	061-275-8016	Supervise the Operation of Improved High Frequency Radio (IHFR) Sets
	061-275-8020	Supervise Field Artillery (FA) Automation/Communications System Operation
	061-275-8020	Supervise Field Artillery (FA) Automation/Communications System Operation

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-287-1031	Power up and Initialize the Fire Direction Data Manager (FDDM)
	061-287-1032	Process Multiple Authenticators for a Subscribers(s) Using the SYS;MAUTH Message
	061-287-1033	Re-synchronize with a Subscriber Using the SYS;SERIAL or SYS;AUTHNT Message
	061-287-1034	Process Target Element Data and their Target Type/Subtype Association using SPRT;TEDE Message
	061-287-1035	Process Commander's Criteria Modification Using the FM;CMDMOD Message
	061-287-1036	Process Meteorological Data Using MET;FPTLL or MET;CW Message
	061-287-1039	Process Fire Mission Schedule Assets Data Using the SCD;ASSETS Message
	061-287-1039	Process Fire Mission Schedule Assets Data Using the SCD;ASSETS Message
	061-287-1041	Process Next Scheduled Fire Mission Task Assignment using the SCD;NXTTSK Message
	061-287-1041	Process Next Scheduled Fire Mission Task Assignment using the SCD;NXTTSK Message
	061-287-1042	Process DPU Data Base Summary Information
	061-287-1042	Process DPU Data Base Summary Information
	061-287-1045	Record the Fire Direction Data Manager Data Base
	061-287-1045	Record the Fire Direction Data Manager Data Base
	061-287-2032	Direct Operator Maintenance of the MLRS FDS
	061-287-3056	Direct the Maintenance of the MLRS FDDM Data Base
	061-287-5001	Prepare the Fire Direction System (FDS) for Operation
	061-287-5004	Maintain Operational Graphics on a Map
	061-287-5004	Maintain Operational Graphics on a Map
	061-287-5014	Update BIOS Set-up Data
	061-287-5022	Control the Input to an MLRS Database
	061-288-5101	Prepare the Fire Direction System (FDS) for Operation(Version 11)
	061-288-5102	Maintain Operational Graphics on a Map(Version 11)
	061-288-5102	Maintain Operational Graphics on a Map(Version 11)
	061-288-5105	Initialize the Fire Direction System (FDS) (Version 11)
	061-288-5107	Process Meteorological Data (Version 11)
	061-288-5108	Process Battlefield Geometry (Version 11)
	061-288-5109	Process Ammunition/ Fire Unit Message(s)
	061-288-5112	Process Commander's Criteria Modification message (Version 11)
	061-288-5116	Process Target Element Data (Version 11)
	061-288-5200	Direct Operator Maintenance of the MLRS Fire Direction System(Version 11)

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-288-5204	Update BIOS Set-up Data(Version 11)
	061-288-5300	Control the Input to an MLRS Database(Version 11)
STP 6-13R14-SM-TG	061-275-8015	Supervise SINCGARS Net Control Station (NCS) Procedures
STP 6-82C14-SM-TG	061-275-8015	Supervise SINCGARS Net Control Station (NCS) Procedures
STP 6-93F14-SM-TG	551-721-3334	Supervise Preventive Maintenance Checks and Services (PMCS)

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: FIRING PLATOON HEADQUARTERS
 BATTERY HEADQUARTERS
 FIRING BATTERY HEADQUARTERS
 FIRING BATTERY HQ
 2 FIRING PLATOON HQ
 FIRING BTRY HQ

TASK: COMMAND AND CONTROL BATTERY/PLATOON/SECTION MOVEMENT OPERATIONS (06-3-A004)
 (FM 6-20) (FM 6-50) (FM 6-60)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery/platoon is conducting combat operations. The BC/platoon leader has received a movement order and guidance. The battery/platoon personnel have been alerted. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The BC/platoon leader directs the movement IAW unit TSOP, commander's guidance and applicable FMs.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. The BC/platoon leader commands and controls reconnaissance operations as follows:</p> <ul style="list-style-type: none"> a. Plans and arranges supporting fires for movement. b. Determines the type of reconnaissance to use and plans reconnaissance. c. Considers primary and alternate routes and designates route guides as required. d. Performs ground reconnaissance of next position. e. Alerts and assembles advance party IAW TSOP. f. Coordinates with controlling HQ to determine method of controlling fires during move. g. Briefs senior leaders and advance party. Briefings include: <ul style="list-style-type: none"> (1) Mission. (2) Method and route of march. (3) Time of displacement. (4) General enemy situation. (5) Location of friendly units. (6) Use of communications. <p>* 2. The BC/platoon leader commands and controls recovery and preparation for movement as follows:</p> <ul style="list-style-type: none"> a. Alerts personnel to prepare to move. b. Plans tactical movement IAW TSOP. c. Issues march order to include: <ul style="list-style-type: none"> (1) Friendly situation. (2) Mission. (3) New position area. (4) Organization of column. (5) Rate and route of march. (6) Communications instructions. (7) Air guards and their sectors of search. (8) Security. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>(9) Warning signals.</p> <p>* 3. The BC/platoon leader commands and controls the tactical march as follows:</p> <ul style="list-style-type: none"> a. Ensures battery/platoon crosses start point (SP) and release point (RP) at designated times. b. Reports the location of disabled vehicles that cannot be recovered by organic assets to the higher HQ. c. Ensures column continues to move. d. Ensures maintenance section is prepared to operate separately, recover disabled vehicles, and report nonrecoverable vehicles to battery/platoon HQ. e. Maintains march discipline. f. Establishes and implements immediate action procedures for: <ul style="list-style-type: none"> (1) Indirect artillery fires. (2) Air attacks. (3) Roadblocks. (4) Ambushes. g. Maintains communications with higher HQ. h. Selects alternate positions. i. Ensures the unit is in position and ready for operations at the prescribed time. + 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
No STP and No MOS	061-288-5302	Direct The Tactical Movement of Firing Plt(s)(Version 11)
STP 21-1-SMCT	071-329-1008	Measure Distance on a Map
	071-329-1012	ORIENT A MAP TO THE GROUND BY MAP TERRAIN ASSOCIATION
	551-721-1359	DRIVE VEHICLE IN A CONVOY
	551-721-1363	DRIVE VEHICLE WITH OR WITHOUT TRAILER/SEMITRAILER IN BLACKOUT CONDITIONS
STP 21-24-SMCT	051-196-3065	PREPARE A ROUTE RECONNAISSANCE OVERLAY
	071-326-3013	CONDUCT A TACTICAL ROAD MARCH
	071-326-5626	PREPARE AN ORAL OPERATION ORDER
	071-326-5630	CONDUCT MOVEMENT TECHNIQUES BY A PLATOON
	071-326-5805	CONDUCT A ROUTE RECONNAISSANCE MISSION
	071-329-1019	USE A MAP OVERLAY
	071-331-0820	ANALYZE TERRAIN

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	071-332-5000	Prepare an Operation Overlay
	071-720-0015	CONDUCT AN AREA RECONNAISSANCE BY A PLATOON
	551-721-3352	DIRECT CONVOY DEFENSE OPERATIONS
	551-721-3359	PREPARE A STRIP MAP
	551-721-4326	PERFORM DUTIES AS CONVOY COMMANDER
	850-001-2001	ASSESS POTENTIAL FOR ACCIDENTS
STP 21-I-MQS	O3-4651.90-0001	Supervise Training and Licensing of Unit Equipment Operators
STP 6-13II-MQS	01-2999.99-0600	Command a Battery
STP 6-13P14-SM-TG	061-287-5017	Verify Reporting of Tactical Platoon Status

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: BATTERY HEADQUARTERS
 FIRING PLATOON HEADQUARTERS
 FIRING BATTERY HEADQUARTERS
 FIRING BATTERY HQ
 FIRING BTRY HQ
 2 FIRING PLATOON HQ

TASK: DIRECT AND CONTROL FIRING BATTERY/PLATOON OPERATIONS (CANNON) (06-3-C001)
 (FM 6-50)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battery/platoon has occupied a firing position and is conducting fire missions. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The XO/platoon leader directs actions resulting in accurate delivery of fires and proper execution of fire commands IAW TSOP.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> * 1. The XO/platoon leader ensures the battery/platoon is prepared for the conduct of fire missions and enough rounds are prepared for planned fires IAW TSOP as follows: + <ul style="list-style-type: none"> a. Howitzer sections have the standard fire commands. b. Ammunition is protected from weather elements and enemy fire. c. Howitzer sections know minimum QE and Ti. d. Only correct data is fired. * 2. The XO/platoon leader determines and reports position data. + * 3. The XO/platoon leader manages and coordinates ammunition supply and resupply as follows: <ul style="list-style-type: none"> a. Associates ammunition vehicles with howitzer sections. b. Directs receipt, storage, transportation, and preparation of ammunition. c. Distributes ammunition. + d. Verifies FDC ammunition status. + e. Ensures segregation by type and lot. f. Ensures howitzers maintain an accurate ammunition inventory. + g. Ensures ammunition updates are sent to FDC. + * 4. The XO/platoon leader employs direct fire as follows: <ul style="list-style-type: none"> a. Designates method of engagement. b. Identifies target(s). c. Directs sections to displace if necessary to supplementary positions. * 5. The XO/platoon leader directs and controls displacement of howitzer sections to an offset position to conduct a fire mission as follows (NONPALADIN UNITS ONLY): <ul style="list-style-type: none"> a. Designates howitzer section(s) to displace. b. Ensures a fire direction capability accompanies the howitzer(s). c. Ensures security commensurate with the threat is maintained. d. Ensures communications with the battery/platoon is maintained. 		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13B24-SM-TG	061-266-4024	Monitor Howitzer Sections During Firing

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: FIRE DIRECTION CENTER

TASK: CONTROL AND COORDINATE FIRE PLANS (06-4-W108)
 (FM 6-20) (FM 6-60)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The battalion is conducting combat operations. The FDC is available and operational. A fire plan is received from higher HQ, or a supported unit. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The battalion FDC controls and coordinates fire plans via available ABCS systems IAW commander's guidance and TSOP, and successfully engages all targets IAW FASP.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. Analyze the Fire Plan(s). +</p> <p>a. Verify if the Fire Plan is in accordance with the Commander's Criteria.</p> <ul style="list-style-type: none"> (1) Counter Prep- An intense volume of fire delivered on enemy positions to disrupt preparations for an attack or counterattack. (2) Critical Time- Time relative to H-Hour that a Fire Plan targets are automatically moved by the ABCS system from the database to the Input Queue for execution. (3) Duration- The total quantity of time in minutes of a Fire Plan from the time the first target is fired to the time last target is fired. (4) Group- A collection of Fire Plan targets to be fired on simultaneously during a specified Fire Plan Phase. (5) H-Hour- The time the Fire Plan is to be executed. (6) H-Time- A quantity of time in minutes relative to H-Hour. (7) Phase- Subdivision of a Fire Plan duration. (8) Prep- An intense volume of fire delivered in accordance with a time schedule on enemy defensive targets in preparation for a assault. (9) Series- A collection of Fire Plan targets or groups of targets to be fired in a specific order during a Fire Plan Phase. <p>b. Review the Fire Plan for:</p> <ul style="list-style-type: none"> (1) Check the content of the Fire Plan. (2) Check for the correct number of targets received. (3) Check times relative to H-hour for each target. (4) Plot the targets on a map. (5) Verify if there any conflicts with any Fire Support Coordination Measures (FSCMs), Support Geometries, and any range violations. (6) Identify the last target. (7) Verify/Coordinate/Input any data from Higher Headquarters that is found to be incorrect/incomplete. <p>* 2. Assign Targets to Firing Units. +</p> <ul style="list-style-type: none"> a. Fire Units can be assigned manually, if a specific Fire Unit is desired. b. Fire Units can be assigned automatically letting the ABCS system decide the best firing element to fire. (This is the preferred method) <p>3. Coordinate resources for the Fire plan. +</p> <ul style="list-style-type: none"> a. Check the time requirements for the fire plan: <ul style="list-style-type: none"> (1) Check the available time for preparation based on H-Hour. (2) Ensure that Firing elements are properly postured. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
b. Check the ammunition requirements for the Fire plan: (1) Check the ammunition type required to be fired in the Fire Plan. (2) Check the amount of ammunition required to be fired in the Fire Plan. (3) Check the Ammunition Configuration of the Firing Platoons. c. Check for the Firing Unit requirements of the Fire plan. (1) Verify the Fire Unit status and availability. (2) Verify the ammunition configuration of the Fire Unit. 4. Monitor the Fire Plan(s) and Resources. + a. Coordinate and develop solutions for any time conflicts. b. Coordinate/request ammunition that is required for the Fire Plan. c. Develop/coordinate solutions for any Fire Unit availability shortfalls. * 5. Processes the Fire Plan(s). + a. Review/Edit/Reject/Accept the Tactical Firing Solution. b. Transmit the Tactical firing solution to Battery ABCS system. c. Conduct a rehearsal to identify any additional shortfalls, and then correct them. d. Monitor Targets and Time relative to H-Hour. e. Record all Mission Fired Reports and report the information to higher headquarters.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
No STP and No MOS STP 6-13C14-SM-TG	061-288-5203	Verify Fire Mission(s)/ Fire Plan(s) (Version 11)
	061-299-5017	Decide to Attack a Target
	061-299-5018	Issue a Fire Order
	061-299-5019	Direct the Massing of Field Artillery Fires
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5008	Enter the Field Artillery Support Plan Text (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)
STP 6-13D14-SM-TG	061-299-5017	Decide to Attack a Target
	061-299-5018	Issue a Fire Order
	061-299-5019	Direct the Massing of Field Artillery Fires
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5008	Enter the Field Artillery Support Plan Text (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)
STP 6-13E13-SM-TG	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5028	Enter Meteorological Guidance in the TAFCS (AFATDS UNITS)
STP 6-13F14-SM-TG	061-299-5002	Maintain Support Data
	061-299-5007	Process Tactical Fire Control Data
	061-299-5009	Process Artillery Target Intelligence Data
	061-299-5010	Process Fire Planning
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5008	Enter the Field Artillery Support Plan Text (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)
STP 6-13F14-SM-TG(VER11)	061-299-5002	Maintain Support Data
	061-299-5007	Process Tactical Fire Control Data
	061-299-5009	Process Artillery Target Intelligence Data
	061-299-5010	Process Fire Planning
	061-300-5005	Update TAFCS Map Functions (AFATDS Units)
	061-300-5006	Process Geometry Data in the TAFCS (AFATDS Units)
	061-300-5007	Update Unit Data in TAFCS (AFATDS Units)
	061-300-5008	Enter the Field Artillery Support Plan Text (AFATDS Units)
	061-300-5015	Process Target Information (AFATDS Units)
	061-300-5027	Conduct the Field Artillery Estimate (AFATDS Units)
STP 6-13P14-SM-TG	061-275-8006	Operate as a Net Control Station (NCS)
	061-287-5004	Maintain Operational Graphics on a Map
	061-287-5007	Process Ammunition/Fire Unit (AMMO/FU) Messages
	061-287-5010	Process Multiple Launch Rocket System (MLRS) Fire Plan(s)
	061-287-5011	Verify Operational Graphics on a Map
	061-287-5013	Verify Fire Mission(s) / Fire Plan(s)
	061-287-5016	Verify Multiple Launch Rocket System (MLRS) Fire Direction System (FDS) Data Base
	061-287-5017	Verify Reporting of Tactical Platoon Status

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
	061-287-5018	Manage MLRS Fire Plan (s)
	061-287-5019	Manage MLRS Fire Mission(s)
	061-287-5020	Control MLRS Fire Plan(s)
	061-287-5021	Control the Conduct of MLRS Fire Mission(s)
	061-287-5022	Control the Input to an MLRS Database
	061-287-5023	Advice Supported Unit of MLRS Capabilities and Limitations.
	061-287-5024	Disseminate Fire Support Information to Lower, and Higher Field Artillery Elements.
	061-288-5102	Maintain Operational Graphics on a Map (Version 11)
	061-288-5109	Process Ammunition/ Fire Unit Message(s)
	061-288-5201	Verify Operational Graphics on a Map (Version 11)
	061-288-5205	Verify MLRS Fire Direction System Database (Version 11)
	061-288-5300	Control the Input to an MLRS Database (Version 11)
	061-288-5303	Control MLRS Fire Plan(s) (Version 11)
	061-288-5304	Control the Conduct of MLRS Fire Mission(s) (Version 11)
	061-288-5305	Advice Supported Unit of MLRS Capabilities and Limitations (Version 11)
	061-288-5306	Disseminate Fire Support Information to Lower, and Higher Field Artillery Elements (Version 11)
	061-288-5400	Verify Reporting of Tactical Platoon Status (Version 11)
	061-288-5401	Manage MLRS Fire Plan (s) (Version 11)
	061-288-5402	Manage MLRS Fire Mission (s) (Version 11)
	061-288-5404	Control MLRS Fire Direction Operations (Version 11)

OPFOR TASKS AND STANDARDS: NONE

ELEMENTS: FIRE DIRECTION CENTER
 OPERATIONS SECTION
 BATTERY

TASK: ESTABLISH AND OPERATE A SINGLE-CHANNEL VOICE RADIO NET (11-2-C302.06-C001)
 (FM 24-18) (FM 24-1) (FM 24-19)
 (FM 24-33)

ITERATION: 1 2 3 4 5 M (Circle)
COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The element is tactically deployed, and must establish the communications networks. Operators have been briefed and issued SOI/SSI extracts, numerical cipher, authenticated system, operations codes and brevity lists. Situational hazards such as NBC conditions, OPFOR EW, and directional finding ability exists. Some iterations of this task are performed in MOPP 4. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: Operators establish and enter a radio net no later than the time prescribed in the OPORD/OPLAN. The net is not compromised. Time required to establish and operate increases when performing this task in MOPP 4.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ol style="list-style-type: none"> 1. The radio operators install radio set for operation. + <ol style="list-style-type: none"> a. Secures radios in mount. b. Connects audio accessories. c. Installs antennas. d. Performs before operation PMCS. e. Performs operational checks for radios. 2. Radio operators makes initial entry into the nets. + <ol style="list-style-type: none"> a. Obtains appropriate call signs, suffixes, and frequencies from SOI/SSI. b. Enters a radio net. c. Authenticates when challenged by NCS. 3. Radio operators recognizes frequency interference. <ol style="list-style-type: none"> a. Recognizes jamming/interference. b. Determines if interference is internal or external. c. Determines if interference is intentional or unintentional. 4. Radio operator initiates prescribed ECCM. + <ol style="list-style-type: none"> a. Continues to operate. b. Increases transmit power. c. Tunes receiver for max signal. d. Relocates antenna. e. Requests change of frequency. f. Reports suspected jamming to immediate supervisor. g. Submits MIJIFEEDER report. 5. Radio operators employ preventive ECCM and radio procedures. + <ol style="list-style-type: none"> a. Use COMSEC equipment (secure) if available (TSEC/KY-38 or TSEC/KY-57). b. Load appropriate key variables using KYK 13, or KOI 15. c. Use only approved radiotelephone procedures as required by SOI/SSI. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
d. Encrypt and decrypt grid coordinates using the SOI/SSI (not necessary in secure voice operation). e. Keep the length and number of transmissions to a minimum (not more than 20 seconds per transmission). f. Use the lowest power setting required to communicate with desired stations. g. Use correct call signs and frequencies. h. Observe periods of radio listening silence. i. Adhere to net discipline.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
No STP and No MOS	113-587-2063	Operate Radio Set AN/VRC-43 or AN/VRC-46 with TSEC/KY-57
STP 21-24-SMCT	113-572-4008	TRANSMIT A VOICE UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
	113-572-5005	RECEIVE A VOICE UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
	113-572-6005	WRITE A UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
	113-572-6006	READ A UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
	113-573-0002	CONDUCT OPERATIONS SECURITY (OPSEC) PROCEDURES
STP 21-I-MQS	113-573-8006	USE AN AUTOMATED SIGNAL OPERATION INSTRUCTION (SOI)
	01-5700.01-0002	Determine Call Signs, Frequencies, and Item Numbers
STP 6-13C14-SM-TG	01-5700.01-0003	Employ a Numeral Cipher Authentication System
	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-275-8006	Operate as a Net Control Station (NCS)
	061-276-1012	Install Antenna Group OE-254/GRC
	061-288-5103	Install Antenna Group OE-254/GRC (Version 11)

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: INSTALL /OPERATE/MAINTAIN A SINGLE CHANNEL VOICE RADIO STATION (11-5-0102.06-A000)

(FM 24-19)
(FM 24-18)
(FM 24-35-1)
(FM 5-36)

(FM 19-30)
(FM 24-33)
(FM 3-4)

(FM 20-3)
(FM 24-35 (O))
(FM 3-5)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The team is briefed and has the SOI/SSI extracts, appropriate keying devices for secure speech operations, radio net diagram, maps, and grid coordinates. General condition applies. (See Chapter 2, paragraph 2-2.) Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The radio set is properly installed and fully operational IAW times specified in the OPLAN/OPORD. Performance in MOPP 4 increases the time required to complete the task.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. Team chief selects site for equipment placement.</p> <ul style="list-style-type: none"> a. Selects site for antenna mast(s). b. Ensures location provides the best cover and concealment possible. c. Ensures location provides the best possible physical security. d. Ensures location provides access to at least one escape route from the OPFOR. e. Establishes/maintains physical security/control of COMSEC materials and documents containing EEFI. <p>2. The team installs radio set.</p> <ul style="list-style-type: none"> a. Performs before operation PMCS b. Sets assigned frequency. c. Makes required settings. d. Checks for proper cable connections. e. Loads variables in required encrypt ion devices. <p>3. Team chief prepares physical security plan.</p> <ul style="list-style-type: none"> a. Establishes/maintains physical security/control of COMSEC and documents containing EEFI. b. Incorporates site defense into overall defense plan. <p>4. The team operates radio set.</p> <ul style="list-style-type: none"> a. Uses low power. b. Establishes contact. c. Properly enters net. d. Performs during operations PMCS. e. Remotes radio set if required. <p>5. The team extends the range of the radio station. (See safety note.)</p> <ul style="list-style-type: none"> a. Selects site for antenna installation. b. Installs RC-292 or OE-254 antenna (team method). 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<ul style="list-style-type: none"> c. Ensures the number of antenna sections used for the radiating and ground plane elements conform to the operating frequency IAW the SOI/SSI when using the RC-292 antenna. d. Accomplishes the transition from whip to appropriate antenna without unnecessary interruption of service. <p>6. The team installs generator set if required.</p> <ul style="list-style-type: none"> a. Positions generator set. b. Conducts preoperational checks. c. Rolls canvas inward and up if required. d. Unpacks cables and equipment if required. e. Grounds generator. f. Establishes fuel point. g. Establishes fire point. h. Starts generator. Accomplishes transition to generator power without unnecessary interruption of communications. i. Attempts to reduce generator noise by sandbagging or other appropriate means. <p>7. The team employs preventive ECCM techniques.</p> <ul style="list-style-type: none"> a. Preplans messages b. Transmits quickly and precisely. c. Uses low power when possible. d. Uses antenna with shortest feasible range. e. Uses proper radiotelephone procedures. f. Operates on a random schedule. g. Encrypts all EEFI category data. h. Authenticates when using non-secure communications means. <p>8. The team implements remedial ECCM techniques.</p> <ul style="list-style-type: none"> a. Recognizes jamming/interference. b. Determines if interference is from internal or external source. c. Determines if interference is unintentional or intentional. d. Notifies immediate supervisor of suspected jamming. e. Continues operation. f. Increases transmitter power. g. Reroutes traffic using alternate means. h. Relocates antenna. i. Requests frequency change. j. Submits MIJIFEEDER Voice Template Message Report. <p>9. The team assumes the duties of NCS.</p> <ul style="list-style-type: none"> a. Initiates net call. b. Controls entry and departure of stations in the net. c. Monitors the net and corrects errors in operating procedures. d. Imposes or lifts listening silence. e. Closes the net. <p>10. The team maintains radio equipment.</p> <ul style="list-style-type: none"> a. Performs PMCS as required b. Performs fault isolation as required. c. Performs user level maintenance as required d. Evacuates faulty equipment as required. e. Completes all necessary entries in maintenance records. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
f. Reports all uncorrected deficiencies to immediate supervisor.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 11-31C13-SM-TG	113-573-0007	IDENTIFY COMSEC INSECURITIES
	113-573-4003	ENCODE AND DECODE MESSAGES USING KTC 600(*) TACTICAL OPERATIONS CODE
	113-573-4006	USE THE KTC 1400(*) NUMERAL CIPHER AND AUTHENTICATION SYSTEM
	113-573-6001	Recognize Electronic Countermeasures (ECM) and Implement Electronic Counter-Countermeasures (ECCM)
	113-573-7017	PREPARE/SUBMIT OPERATOR'S (MIJI) REPORT
STP 21-24-SMCT	113-572-4008	TRANSMIT A VOICE UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
	113-572-5005	RECEIVE A VOICE UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
	113-573-0002	CONDUCT OPERATIONS SECURITY (OPSEC) PROCEDURES
	113-573-8006	USE AN AUTOMATED SIGNAL OPERATION INSTRUCTION (SOI)

OPFOR TASKS AND STANDARDS: NONE

ELEMENT: BATTERY

TASK: INSTALL/OPERATE/MAINTAIN A SINGLE CHANNEL GROUND AND AIRBORNE RADIO SYSTEM (SINCGARS) FREQUENCY HOPPING (FH) NET (11-5-1102.06-A001)

(FM 11-32)

(FM 20-3)

(FM 24-18)

(FM 24-19)

(FM 24-33)

(FM 24-35 (O))

(FM 24-35-1)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: The team has been briefed and has signal operating instructions/signal supplemental instructions (SOI/SSI) extracts, appropriate loading devices with keys, radio net diagram, maps, and grid coordinates. Sub tasks 1 through 4 are done in the motor pool or staging area prior to going to the field location. General condition applies. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The single-channel ground and airborne radio system (SINCGARS) radio sets are operational IAW the TSOP, applicable supporting products and the operation plan/operation order.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>* 1. Supervisor checks radios for completeness and operability. + a. Checks that vehicular and/or manpack systems are assembled correctly. WARNING: High voltages exist at connector J1 on the mounting adapter. Be sure J1 is covered or capped when not in use. b. Checks that operator has logged amp hours (manpack only). c. Checks to ensure preoperational preventive maintenance checks and services (PMCS) are completed. CAUTION: RF energy is present near the antenna during transmissions. Maintain at least 30 inches between vehicular antenna and personnel during transmission. An antenna tip cap must be in place on the antenna. Tie down the antenna so the distance from the ground to the tip cap is 7 feet or more.</p> <p>* 2. The supervisor selects the site. a. Selects primary and alternate locations within the general site. b. Establishes/maintains camouflage discipline. c. Checks that location provides effective use of terrain in an electronic warfare environment. d. Checks that location avoids interference from power lines and other friendly sources of frequency interference.</p> <p>3. Net Members perform premission checks for SINCGARS frequency hopping (FH) cold start net opening. + a. Perform before operation PMCS. b. Load transmission security key (TSK) using MX-10579 or MX-18290 (non-ICOM) only. c. Load hopset using MX-18290 (ICOM only). d. Load traffic encryption key (TEK) using KYK-13.</p> <p>4. Net control station (NCS) performs premission checks for SINCGARS FH cold start net opening. + a. Performs preoperational PMCS. b. Loads TSK and hopset using MX-10579 or MX-18290 (non-ICOM only). c. Loads hopset using MX-18290 (ICOM only). d. Loads TEK using KYK-13.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>e. Loads FH sync time IAW signal operating instructions/signal supplemental instructions (SOI/SSI).</p> <p>f. Loads CUE frequency.</p> <p>g. Directs ALT NCS to load CUE frequency as required.</p> <p>h. Changes net identification IAW SOI/SSI.</p> <p>5. NCS opens net. +</p> <p>a. Issues net call in the secure mode on the MAN channel.</p> <p>b. Issues electronic counter-countermeasures remote fill (ERF) instructions and sends ERF.</p> <p>c. Sets channel switch to hopset channel and issues net call.</p> <p>d. Opens net.</p> <p>e. Resets channel switch to MAN and calls missing net members.</p> <p>f. Repeats cold start.</p> <p>g. Sets FCTN switch to SQ ON.</p> <p>6. Net members enter the net.</p> <p>a. Respond in correct sequence to net call.</p> <p>b. Store ERF and set channel switch to hopset channel and FCTN switch to SQ ON.</p> <p>c. Respond in correct sequence to net call.</p> <p>d. If missed ERF, or heard no communications on hopset channel, reset channel switch to MAN and FCTN switch to LO.</p> <p>e. Respond in sequence to NCS call.</p> <p>7. Net members perform late net entry (LNE), cue, and ERF method.</p> <p>a. Perform premission checks for FH cold start.</p> <p>b. Load cue frequency IAW SOI/SSI.</p> <p>c. Initiate cue call.</p> <p>d. Report into net.</p> <p>e. Switch to MAN channel and conducts cold start net opening.</p> <p>8. Net members use proper radio procedures. +</p> <p>a. Keep the length and number of transmissions to a minimum.</p> <p>b. Use the lowest power setting required to communicate.</p> <p>c. Use authorized call signs and frequencies.</p> <p>d. Observe periods of radio listening silence.</p> <p>e. Operate on a random schedule.</p> <p>f. Adhere to net discipline.</p> <p>9. The team members recognize different types of interference.</p> <p>a. Check RT SIG display when not transmitting if the display is constantly or intermittently higher than 1; disconnect antenna to determine if the interference is internal or external.</p> <p>b. Notify maintenance of internal symptoms.</p> <p>c. Initiate electronic protection (EP) for external symptoms.</p> <p>10. The team members initiate EP actions.</p> <p>a. Continue to operate.</p> <p>b. Do not disclose in the clear the effectiveness of the jamming.</p> <p>c. Reduce transmission speed.</p> <p>d. Increase transmitter power.</p> <p>e. Relocate antenna.</p> <p>f. Prepare and forward MIJIFEEDER Voice Template Message Report to supervisor.</p>		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
<p>11. The team members extend the range of the radio station. +</p> <ol style="list-style-type: none"> a. Inspect OE-254 antenna for serviceability. b. Install OE-254 antenna (team method). c. Accomplish the transaction from the whip to OE-254 antenna without unnecessary interruption of service. <p>12. The retrans team establishes a retransmission site (battalion and higher). +</p> <ol style="list-style-type: none"> a. Installs and connects OE-254 antennas. b. Performs preoperational PMCS. c. Loads CMD NET MAN frequency in radio C. d. Loads CMD NET MAN and cue frequencies in radio D. e. Loads TSK and TEK into both radios (non-ICOM only). f. Loads hopset and TEK into both radios (ICOM only). g. Cues LNE using radio D. h. Stores ERF in both radios. i. Changes radio D to RTS MAN and cue frequencies, and RTS net ID. j. Sets radios C and D FCTN switches to RXMT. <p>13. Team members initiate net radio interface (NRI) call.</p> <ol style="list-style-type: none"> a. Call the NRI operator on the NRI hopset channel or initiate a cue call on the NCI cue channel as required. b. Switch to NRI MAN channel. c. Establish communications on the NRI hopset channel. d. Identify telephone subscriber by call sign or telephone number. <p>14. The team members maintain SINCGARS radio net.</p> <ol style="list-style-type: none"> a. Perform PMCS as required. b. Perform fault isolation as required. c. Perform user level maintenance as required. d. Evacuate faulty equipment as required. e. Complete all necessary entries in maintenance records. f. Report all uncorrected deficiencies to immediate supervisor. <p>15. NCS closes the net.</p> <ol style="list-style-type: none"> a. Calls net and issues close down instructions. b. Receives acknowledge in correct sequence. c. Acknowledges net members. d. Performs after operation PMCS. <p>SAFETY NOTE: Operators follow all appropriate safety guidelines and regulations. ALL COMMANDERS WHO USE THE OE-254/RC-292 ANTENNA FAMILIES MUST COMPLY WITH THE FOLLOWING:</p> <ol style="list-style-type: none"> 1. Follow procedures outlined in TM 11-5895-357-13. 2. Wear protective equipment when erecting and assembling the antennas (eye goggles, helmet, gloves). 3. Install element tip protectors (NSN: 5985-00-930-7223) or other suitable tip caps including modified tennis balls, rubber tubing, and so forth, over the tip ends as authorized in CECOM Message 031800Z Feb 89. 4. Prohibit unauthorized modifications (that is, use of camouflage poles in lieu of the OE-254 mast sections). 5. Prohibit raising the antenna past its maximum safe height. 		

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
6. Inspect all OE-254 antenna masts for the presence of "through" cracks around the notch before and after erection. Remove all antenna masts from service if "through" cracks of 1/4 inch or greater are identified and order replacement for these masts. 7. Use a gin pole or other suitable device to lift the antenna feed cone with elements off the ground to erect. This will reduce the stress placed on the antenna during erection. 8. Do not place an individual under the antenna during the erection process. 9. Place the notches on the backside of the antenna during erection to reduce the stress at the joints. 10. Remove one upper mast section as authorized by CECOM Message 102800Z Mar 90.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 21-24-SMCT	113-572-4008	TRANSMIT A VOICE UNITED STATES MESSAGE TEXT FORMAT (USMTF) MESSAGE
	113-573-0002	CONDUCT OPERATIONS SECURITY (OPSEC) PROCEDURES
	113-573-8006	USE AN AUTOMATED SIGNAL OPERATION INSTRUCTION (SOI)
STP 6-13B1-SM	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-276-1011	Use SOI Extract
STP 6-13C14-SM-TG	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-275-8006	Operate as a Net Control Station (NCS)
	061-275-8014	Supervise the Operation of SINCGARS
	061-275-8015	Supervise SINCGARS Net Control Station (NCS) Procedures
	061-276-1010	Install Antenna Group OE-303
	061-276-1011	Use SOI Extract
	061-276-1012	Install Antenna Group OE-254/GRC
STP 6-13D14-SM-TG	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-275-8006	Operate as a Net Control Station (NCS)
	061-275-8014	Supervise the Operation of SINCGARS
	061-275-8015	Supervise SINCGARS Net Control Station (NCS) Procedures
	061-276-1011	Use SOI Extract
	061-276-1012	Install Antenna Group OE-254/GRC

SUPPORTING INDIVIDUAL TASKS

References	Task Number	Task Title
STP 6-13E13-SM-TG	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-275-8014	Supervise the Operation of SINCGARS
	061-276-1011	Use SOI Extract
	061-276-1012	Install Antenna Group OE-254/GRC
	061-279-5003	Maintain Communication Using the AFC/DS
STP 6-13F14-SM-TG	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-275-8014	Supervise the Operation of SINCGARS
	061-276-1012	Install Antenna Group OE-254/GRC
STP 6-13F14-SM-TG(VER11)	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-275-8014	Supervise the Operation of SINCGARS
	061-276-1012	Install Antenna Group OE-254/GRC
STP 6-13M14-SM-TG	061-275-8004	Operate SINCGARS ICOM w/VIC-1
STP 6-13P14-SM-TG	061-275-8004	Operate SINCGARS ICOM w/VIC-1
	061-275-8006	Operate as a Net Control Station (NCS)
	061-275-8015	Supervise SINCGARS Net Control Station (NCS) Procedures
	061-276-1012	Install Antenna Group OE-254/GRC
STP 6-13R14-SM-TG	061-275-8003	Operate SINCGARS ICOM
	061-275-8015	Supervise SINCGARS Net Control Station (NCS) Procedures
	061-276-1011	Use SOI Extract
STP 6-82C14-SM-TG	061-276-1012	Install Antenna Group OE-254/GRC
	061-275-8003	Operate SINCGARS ICOM
	061-275-8014	Supervise the Operation of SINCGARS
	061-275-8015	Supervise SINCGARS Net Control Station (NCS) Procedures
STP 6-93F14-SM-TG	061-276-1011	Use SOI Extract
	061-275-8003	Operate SINCGARS ICOM

OPFOR TASKS AND STANDARDS: NONE

CHAPTER 6

External Evaluation

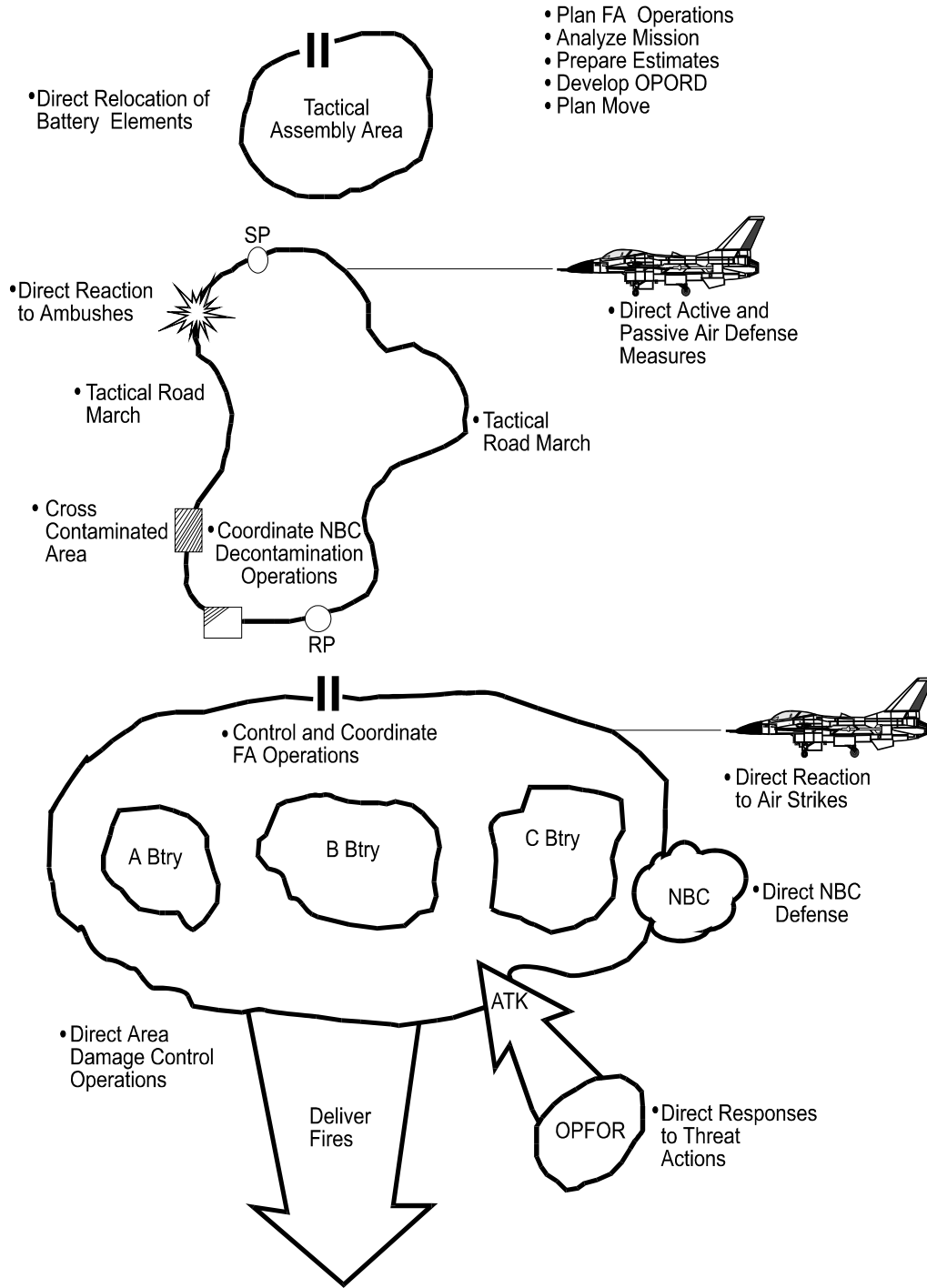
- 6-1. General. Evaluations are conducted to assess a unit's ability to perform its missions. This chapter is a guide for preparing evaluations. Using units may modify this evaluation, based on METT-TC and other considerations, as deemed appropriate by the commander. Selected T&EOs in Chapter 5 are used for evaluations that involve the total unit and employ a realistic OPFOR and the use of MILES. At the end of the evaluation, the commander can identify the strengths and weaknesses of his unit. These strengths and weaknesses are the basis for future training and resource allocations.
- 6-2. Preparing the Evaluation. The commander must standardize evaluation procedures to accurately measure the unit's capabilities.
- a. Preparing the Evaluation Instrument. The sample evaluation scenario in Table 6-1 contains the missions as well as the appropriate tasks necessary to develop the scenario and execute the evaluation. Figure 6-1 is a graphic representation of the scenario. Selective tailoring is required because it is not possible to evaluate every task. The following procedures are suggested for developing the evaluation.

BATTALION EVALUATION SCENARIO				
<u>EVENT</u>	<u>ACTION</u>	<u>ESTIMATED TIME ALLOTTED</u>	<u>PROPOSED TIME FRAME</u>	
1	Conduct preevaluation activities (for example, install, align, and troubleshoot MILES equipment; conduct inspections, draw equipment and ammunition)	Before start time		
2	Occupy Assembly Area	1hr.	Day 1	1700
3	Receive Battalion OPORD	30min.		1730
4	Prepare for Combat Operations	1hr.		1830
5	Reconnoiter Operations Area	1hr.		1930
6	Move Tactically	1hr.		2030
7	Ambush Convoy and Air Operations	1hr.		2130
8	Conduct NBC Operations	1hr.		2230
9	Consolidate and Reorganize - Intermediate AAR	30min.		2300
10	Receive Battalion OPORD	30min.		2330
11	Conduct Air Operations	30min.		2400
12	Conduct Threat Level I and II Activities	6hrs.	Day 2	0600
13	Intermediate AAR	30min.		0630
14	Receive Battalion OPORD	30min.		0700
15	Move Tactically	1hr.		0800
16	Conduct NBC Operations	1hr.		0900
17	Conduct Threat Level I and II Activities	3hrs.		1200
*	Administrative Move to AAR Site	1hr.		1300
18	After Action Review	2hrs.		1500
19	ENDEX			1600

*Total time 24 hrs.

*Movement time between evaluated actions vary and is not completely accounted for.

Table 6-1. Sample Evaluation



Scenario

Figure 6-1. Example Graphic Scenario

- (1) Identify the missions for evaluating each echelon or element, using Figure 2-1 in Chapter 2.
2. Record the selected missions in the Unit Proficiency Worksheet (UPW), Figure 6-2.

Unit: _____						Date: _____
No.	Unit Mission/Task	Section/ Squad	Section/ Squad	Section/ Squad	Section/ Squad	Unit Overall Rating & Remarks
		GO	GO	GO	GO	
		NO-GO	NO-GO	NO-GO	NO-GO	
		GO	GO	GO	GO	
		NO-GO	NO-GO	NO-GO	NO-GO	
		GO	GO	GO	GO	
		NO-GO	NO-GO	NO-GO	NO-GO	
		GO	GO	GO	GO	
		NO-GO	NO-GO	NO-GO	NO-GO	
		GO	GO	GO	GO	
		NO-GO	NO-GO	NO-GO	NO-GO	
		GO	GO	GO	GO	
		NO-GO	NO-GO	NO-GO	NO-GO	
		GO	GO	GO	GO	
		NO-GO	NO-GO	NO-GO	NO-GO	
		GO	GO	GO	GO	
		NO-GO	NO-GO	NO-GO	NO-GO	
		GO	GO	GO	GO	
		NO-GO	NO-GO	NO-GO	NO-GO	
		GO	GO	GO	GO	
		NO-GO	NO-GO	NO-GO	NO-GO	

*If more space is required for remarks use the back side of this form

Figure 6-2. Example Unit Proficiency Worksheet

- (3) Select the tasks for the evaluation of every mission. List the selected tasks on the Task Summary Sheet which is used for recording the results of the evaluation.

SUPPORT REQUIREMENTS WORKSHEET				
FTX/STX: <u>FTX 6-2-E0001</u> (Control and Coordinate FA Operations)				
Maneuver Area:				
CLASS I: (Ration Cycle):	<u>A-C-A</u>		# of days: <u>03</u>	
CLASS II (Other Equipment):				
CLASS III (POL):				
CLASS IV (Barrier Materials):				
Training mines	Sandbags	Lumber	Wire	Pickets
CLASS V (Ammunition):				
7.62mm blanks	600		Rockets	6 Per SPL
5.56mm blanks	3240		MILES EQUIPMENT:	
Artillery simulators	20		M16 system	85
Hand grenades	20		M60 system	4
CLASS VII (End items):	Controller guns		2	
	Small arms alignment fixture		1	
CLASS VIII (Medic):				
CLASS IX (Maintenance):				
Other:				
Evaluators:				
# of evaluators	# of HMMWVs	Communications/frequencies	Controller guns	
5	5	as needed	5	
Friendly Forces (CS/CSS):				
OPFOR: OPFOR with vehicles, MILES, weapons, and appropriate radio frequencies				

Figure 6-4. Support Requirements

- (4) Compile the selected missions and tasks in the order they logically occur in the detailed scenario. Group the selected missions and tasks in parts for continuous operations, Table 6-1, Sample Evaluation Scenario. Parts can be interrupted at logical points to assess MILES casualties and conduct in-process AARs.
- b. Forecasting and Requisitioning Resources. Adequate training ammunition, equipment, and supplies must be forecasted and requisitioned. Figure 6-4 is a list of support requirements for this evaluation. It is based on experiences with the scenario in Table 6-1. The evaluating headquarters prepares its own support requirements.
- c. Selecting and Preparing the Field Evaluation Site. Required size, type of terrain, OPFOR requirements, and administrative requirements are the basis for site selection. For this evaluation an area of 5 kilometers X 10 kilometers was selected. The OPFOR is positioned according to threat doctrine. The site must provide space for the administrative area required to support the evaluation.
- d. Planning Indirect Fire Simulation. Because it greatly influences the outcome of battles, reaction to indirect fire is an important consideration of the evaluation. Indirect fire simulation requires considerable planning to achieve realism.
 - (1) The fire marker control system outlined in TC 25-6 is a recommended method of simulating indirect fire. Due to the amount of required resources, this method may be difficult to support.
 - (2) The commander may use the evaluation control headquarters method or the simulation without OPFOR method to evaluate the unit's ability to react to indirect fire. If the evaluation control headquarters method is used, the OPFOR initiates a call for fire to the evaluation control headquarters, which simulates the tactical FDC. The control headquarters would then relay the delivery data to the O/Cs who would mark the impact of the round with artillery simulators and assess appropriate casualties. If an OPFOR is not used, the O/C may ignite artillery simulators and observe the unit's reactions. The FM 25 series provide assessment and computation tables that may be used to determine casualties. Indirect fire simulation must be realistic and limited to what the unit could reasonably expect under combat conditions.

6-3. Selecting the Observer/Controllers

- a. O/Cs must know the unit's missions, organization, equipment, and employment. The senior O/C should be at least equal in rank to the unit commander and have successfully performed in that specific or similar command position.
- b. The following are minimum rank and experience requirements for O/Cs:
 - (1) Battalion O/C is an officer with battalion command experience.
 - (2) Battery O/Cs are officers with battery command experience.
 - (3) Recorder is an officer or NCO at the evaluation control headquarters who receives "kill" information or results and time data from the O/Cs.

6-4. Training the Observer/Controllers. O/Cs standardize administration of the evaluation by understanding the following functional areas:

- a. Evaluation Design. Each part is designed to evaluate specific missions or tasks within the overall scenario. O/Cs must thoroughly understand the evaluation and correctly implement it.
- b. MILES. Each O/C, regardless of position, must have full knowledge of the unit's weapons and vehicles and must also thoroughly understand the MILES system being used. The unit commander is responsible for ensuring that all MILES equipment is functional before each part of the scenario.
- c. Evaluation Control System. This system ensures that the evaluation is administered in a consistent and standardized manner and that correct data is collected for the final evaluation. It includes the following elements:
 - (1) Rules of engagement.
 - (2) O/C duties and responsibilities.
 - (3) Communications systems.
 - (4) Evaluation data collection plan.

6-5. Recording External Evaluation Information

- a. The evaluating headquarters develops the data recording instruments for the O/Cs. The Unit Data Sheet, Figure 6-5, documents demographic information which may reflect on a unit's performance. The Environmental Data Sheet, Figure 6-6, documents weather information in order to compare missions under differing environmental conditions. The Personnel and Equipment Loss Report, Figure 6-7, documents information that may affect the unit's degree of success during engagements with the OPFOR.

UNIT DATA SHEET						
1. UNIT DESIGNATION:					DATE:	
2. UNIT LEADERS: (CIRCLE MOST CORRECT ANSWER)						
POSITION	RANK	TIME IN UNIT (MONTHS)				
BATTERY COMMANDER	CPT	1-3	4-6	7-12	13-18	>19
FIRST SERGEANT	1SG	1-3	4-6	7-12	13-18	>19
PLATOON LEADER	1LT/2LT	1-3	4-6	7-12	13-18	>19
PLATOON SERGEANT	SFC/SSG	1-3	4-6	7-12	13-18	>19
1ST SECTION CHIEF	SSG/SGT	1-3	4-6	7-12	13-18	>19
2ND SECTION CHIEF	SSG/SGT	1-3	4-6	7-12	13-18	>19
3RD SECTION CHIEF	SSG/SGT	1-3	4-6	7-12	13-18	>19
3. UNIT STRENGTH (EXCLUDING LEADERS):						
4. EQUIPMENT SHORTAGES (MAJOR ITEMS):						
5. COMMENTS:						
OBSERVER/CONTROLLER'S SIGNATURE:						

Figure 6-5. Example Platoon Unit Data Sheet

ENVIRONMENTAL DATA SHEET						
EXERCISE NUMBER AND DESCRIPTION:						
DATE/TIME EXERCISE STARTED:						
DATE/TIME EXERCISE ENDED:						
1. WEATHER CONDITIONS: (Circle appropriate description)						
Clear	Partly Cloudy	Cloudy	Hazy	Rain	Snow	Fog
Other:						
Temperature:						
2. GROUND CONDITIONS: (Circle appropriate description)						
Dry	Wet	Ice	Snow			
Other:						
3. LIGHT CONDITIONS: (Circle appropriate description)						
Day	Night					
Moon Phase:		1/4	1/2	3/4	Full	
Average Range of Visibility Due to Light:						
4. TERRAIN: (Circle appropriate description)						
Flat	Rolling	Mountains	Jungle	Desert	Urban	Arctic
Other:						
Top Soil:	Sandy	Rocky	Clay	Other:		
Average Range of Visibility Due to Terrain:						
5. REMARKS:						

Figure 6-6. Example Environmental Data Sheet

PERSONNEL AND EQUIPMENT LOSS REPORT					
Mission Title or Task Number	Date/Time of Enemy Contact	Friendly KIA/WIA	Enemy KIA/WIA	Friendly Vehicles Destroyed	Enemy Vehicles Destroyed
COMMENTS:					

Figure 6-7. Example Personnel and Equipment Loss Report

- b. The senior O/C has the overall responsibility for preparation of the external evaluation. This evaluation is based on his own findings and his subordinate O/C's input. Subordinate O/Cs use the task evaluation criteria (T&EO from Chapter 5 and Task Summary Sheet) to determine overall proficiency in their particular areas. The senior O/C compiles the external evaluation results as prescribed by the evaluating commander. Deviations from the task standard assessed by the battery O/C may be addressed in the senior O/C comments portion of the UPW.
- 6-6. Selecting and Training the Opposing Forces. The selection and training of the OPFOR is crucial to the success of a standardized evaluation. The OPFOR provide one of the control measures that influences the conditions under which the evaluation is administered. The unit should face an opponent who realistically resembles the threat in strength, weapons, and skill.
- a. Selection. Any qualified Skill Level 1 or 2 soldier can serve as a member of the OPFOR. Ideally, the OPFOR should be a small cohesive unit under the control of their leader or commander.
 - b. Training. The OPFOR must understand the following six major areas:
 - (1) Installation and operation of the MILES devices.
 - (2) Rules of engagement.
 - (3) Threat small unit tactics.
 - (4) Training scenarios.
 - (5) OPFOR weapons and equipment, if available.
 - (6) Safety.
 - c. Opposing Forces Strength
 - (1) Offense. Using MILES, the unit should outnumber the OPFOR three to one if an attack is to be successful. If the OPFOR are stronger than this ratio, only the most exceptional unit will be successful. They must be armed with weapons capable of defeating any of the unit's assets. As a general rule, the OPFOR should be strong enough to offer the unit a realistic challenge, but one that the unit can defeat when proper tactics are employed.
 - (2) Defense. The OPFOR, at a minimum, should have a three-to-one ratio of superiority, because anything less will not have sufficient weapons and ammunition to conduct a successful attack. They must be more than merely a series of targets to be destroyed. The OPFOR should be allowed to plan their own attack for each mission and not be forced into a "canned" attack that all units quickly defeat. Once the OPFOR establish their plan, they must use the same plan for all other like units for that event in order to maintain the objectivity and standardization of the evaluation.
- 6-7. Conducting the Evaluation. Evaluations are divided into three distinct areas. Each area requires a different degree of preparation and coordination.
- a. Preevaluation
 - (1) The senior O/C and all other O/Cs must perform reconnaissance of the evaluation area to know the unit's boundaries, disposition of the OPFOR, and the

most likely avenues of approach throughout the field evaluation site's area of operation.

- (2) The unit must prepare an OPORD and FRAGO to control the exercise. An order is prepared for each mission in the evaluation scenario. These can be prepared by using the skeleton orders contained in the STXs contained in Chapter 4.
- (3) Unit preparatory activities include installation and troubleshooting of MILES equipment, loading vehicles, conducting inspections, and performing other logistic and administrative actions, as required.
- (4) The OPFOR are placed in position and briefed while the unit is conducting its preparatory activities.
- (5) In this evaluation scenario, the unit is issued a movement order to move to an assembly area. When the assembly area has been occupied, the OPORD is issued. The O/Cs should make an equipment functions check after the unit occupies the assembly area and after the unit leaders have issued their instructions.

b. Evaluation

- (1) The evaluation team controls the evaluation in two ways. First, it uses measures established in both the movement order and in Paragraphs 3 and 5 in the OPORD and FRAGO. Second, the team controls the evaluation through the team commander (simulated by the senior O/C for this evaluation) on the team net. The team does not control in the traditional sense, instead it accompanies the unit as observers. Only the senior O/C has direct verbal contact with the unit commander. All other O/Cs do not speak to, aid, advise, point out positions, or in any way influence the unit's performance, except for a possible or actual safety issue or emergency. O/Cs are neutral throughout the evaluation.
- (2) Once the senior O/C issues the OPORD and movement order, the unit commander executes the events and actions prescribed in the first part of the evaluation scenario within the estimated time. From this point on all successive parts begin with a FRAGO.
- (3) The senior O/C terminates a part when the unit has completed all the events and actions in a particular area or has suffered so many casualties or damage that the part cannot be completed. The O/C must record the reasons for the termination in the margin of the O/C's Task Summary Sheet and report his action to the evaluation control headquarters. In the sample evaluation scenario, the completion of each event or action is indicated by "conducting sustainment operations." During this period, the senior O/C directs the unit to remain in position while "replacements" (personnel and equipment designated as killed or destroyed) are sent forward to reconstitute the unit. At this time, O/Cs must perform the following actions:
 - (a) Inspect all MILES equipment, record "kill" codes, and reset equipment. Any damage or inoperative MILES equipment is replaced.
 - (b) Resolve all casualty data to determine the time, place, number, and cause of casualties. This information is reported to the recorder in the evaluation control headquarters.

- (c) Debrief the unit to resolve questions. Afterwards, the senior O/C directs the unit to continue its mission after it receives a FRAGO or OPORD for the next part.
- (4) These guidelines should be followed by the O/Cs:
- (a) Report major "kills" (vehicles, groups).
 - (b) Report major weapons fired. Together with reporting major kills, this is the best method for determining direct fire effectiveness. Both significant firings and hits are reported to the evaluation control headquarters.
 - (c) Enforce rules of engagement.
 - (d) Observe critical tactical events of time. O/Cs must spot and record any action that might have an effect on later performance or mission outcome.
 - (e) Record travel routes and unit's location.
 - (f) Inform OPFOR controllers of the unit's location, direction, and intent. This is necessary to enable OPFOR action to be controlled in accordance with the desired sequence of events.
 - (g) Enforce safety.
 - (h) Terminate mission.
- c. Post Evaluation. After the evaluation is terminated, the unit moves to an assembly area and performs the following actions:
- (1) The unit O/C debriefs subordinate O/Cs and compiles all data (evaluator packets) for the evaluation.
 - (2) The unit O/C must complete the Task Summary Sheet.
 - (3) The unit O/C must turn in all completed O/C packets (with the O/C scoring system) to control headquarters for recording and analysis.
 - (4) The unit O/C must conduct an AAR of the unit's performance.
 - (5) Each element O/C should conduct an AAR of his element's performance.

6-8. Conducting the After Action Review

- a. General. At the completion of each evaluation part, the AAR leader provides feedback to the unit in order to increase and reinforce learning.
- b. Feedback. Because all members of the unit participate in an AAR, each member becomes a source of feedback. This provides a richer "database" for key points. The AAR leader draws information from each member that becomes an important part of the discussion. This information is the basis for discussing alternate courses of action.
- c. Preparing the After Action Review. AAR preparation involves five steps:

- (1) Review training orders and objectives. Training objectives are the focus of the discussion of the exercise results. The FRAGOs and OPORDs included in the exercise design implement these objectives. The O/C should be familiar with the objectives, FRAGOs, and OPORDs so that he can note orders given by leaders of the evaluated unit and its subordinate elements that either implement these objectives or deviate from them.
 - (2) Observe the exercise. This is an active process. The emphasis is on noting those actions that make the difference between the unit's success or failure. The O/C does not need to remain close to the unit leader, since more can be seen from high ground near the lead element's location or along the unit's route of march. Because unit orders identify important activities and checkpoints, the O/C must be present when the commander issues the order. The O/C should position himself where he can best observe anticipated critical events. Examples of critical events include:
 - (a) Conducting a road march.
 - (b) Crossing a radiologically contaminated area.
 - (c) Reforming unit supply operations.
 - (d) Responding to a NBC attack.
 - (3) Select the site and assemble the participants. After the exercise, select a site for the AAR. If possible, hold the AAR where the majority of action occurred, where most of the critical events took place (normally where the OPFOR was positioned), or where the terrain can be observed. Usually, the OPFOR or unit objectives are suitable for assembling the players and conducting the AAR.
 - (4) Debrief the O/Cs. While the units are moving to the selected site, the O/Cs should be debriefed. The senior O/C must have a complete understanding of what happened in the exercise. The fourth step in AAR preparation is to obtain a detailed description of the exercise's events in the order in which they occurred.
 - (5) Review the events. After the senior O/C has a sound understanding of what happened during the exercise, he reviews the events that are ranked in terms of their relevance to the training objectives and their contributions to the exercise outcome. He selects as many events as can be covered in detail during the time allowed for the AAR and places them in chronological order.
- d. Conducting the After Action Review. Conducting the AAR requires five steps:
- (1) Organize the participants. When the O/C and AAR leader assembles the participants, he groups them according to their organization in the exercise. Each subordinate element's O/C is the element for which he is responsible.
 - (2) State the training objectives. The AAR leader makes a brief statement of the training objectives for the exercise. These are described as specifically as possible. He states any additional teaching points that he intends to cover during the AAR. These should be limited to three or four key points in order to keep the AAR focused and prevent it from becoming excessively long.
 - (3) Lead the discussion. The AAR leader guides the discussion of the events in their order of occurrence. Diagrams help players visualize the exercise development. The AAR leader starts by sketching the main terrain features and, as the AAR

proceeds, have the participants draw routes of advance, objectives, and locations of engagements. Each event is discussed in detail to make teaching points about the unit's performance during the event. In an effective AAR, the AAR leader should--

- (a) Avoid giving a critique or lecture.
 - (b) Guide the discussion by asking leading questions.
 - (c) Suggest the players describe what occurred in their own terms.
 - (d) Suggest the players discuss not only what happened, but how it happened, and how it could be done better.
 - (e) Focus the discussion to ensure that important tactical lessons are made explicit.
 - (f) Relate events to subsequent results.
 - (g) Avoid detailed examination of events not directly related to major training objectives.
 - (h) Encourage the participants to use diagrams to illustrate teaching points and to show route, phase lines, and objectives.
 - (i) Prohibit players from offering self-serving excuses for inappropriate tactical actions.
- (4) Review the sequence of the events associated with the hazards of the risk assessment made prior to the exercise. Ask the following questions:
- (a) Were effective controls put in place to avoid accidents?
 - (b) Was training realism reduced through artificial control measures?
 - (c) Were all participants aware of hazards down to the lowest level?
 - (d) Did any hazard present itself that was not identified, and what was done to overcome it?
 - (e) Were there incidents of fratricide or near fratricide, and how can they be avoided in the future?
- (5) Summarize key points. The AAR leader briefly summarizes teaching points in terms of training objectives covered in the AAR. After the summary, he can have a private conversation with the unit commander regarding his strengths and weaknesses, and what he can do to improve his performance and that of his unit. A good AAR leader--
- (a) Maintains order and discipline.
 - (b) Reviews the training objectives.
 - (c) Addresses important events as they occurred and how the unit could have done them better. During the discussion, the leader avoids a

- detailed examination of events not directly related to the training objective.
- (d) Traces the chain of events so all participants understand the results of mistakes. One mistake is often the partial cause of another.
 - (e) Clearly relates tactical events to teaching points.
 - (f) Involves participants in the discussion.
 - (g) Clearly and concisely gives summary and new training objectives.
 - (h) Reinforces points by using sketches, diagrams, or terrain models in the AAR.
- e. Reference Materials. Reference materials for conducting an AAR are TC 25-6, TC 25-20, and FM 25-101.

APPENDIX A - TIME STANDARDS**CONTENTS**

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Notes:

1. These tables are designed to be four separate evaluations: Observers, BN FDC, PLT/BTRY FDC & Guns.
2. Any Fire for Effect mission may be designated as a "multiple volley mission".
3. Missions with identical time standards have been combined; separate fire mission, same standard.
4. In the Adjust Fire mission tables, only one round observer adjustments are annotated (the initial round) and added to the FFE times when determining total mission time. That is, other than the radar or G/VLLD missions which by nature only allow for one round adjustments, the standard for adjust fire missions that employ subsequent rounds in adjustment must be calculated by adding the additional subsequent round adjustment times. Therefore, the " + " (plus) sign in these tables denote this possible addition of subsequent observer, FDC, and gun times for each of the subsequent rounds yielding a revised total mission time standard. Trainers and evaluators determine if subsequent adjustments in any mission become excessive.
5. PALADIN gun times include the computation of the technical solution by the AFCS.

6. Fuse quick is used as the baseline fuze in most of the fire mission tables. If fuze time or VT is used in a particular fire mission in lieu of fuze quick, 15 seconds will be added to the "gun time" standard for each round fired.

7. High angle fire mission tables allow 15 seconds more "gun time" than low angle tables.

8. Updates to this document will be posted on the Warfighting Integration and Development Directorate (WIDD) homepage <http://155.219.98/WIDD/>

9. POC for this appendix is Unit Training Division, WIDD, USAFAS (DSN: 639-3300/4050).
Email (koelzerh@sill.army.mil/)

A-1. Introduction. Accurate and timely artillery fires are critical for mission accomplishment and battlefield survival of the maneuver force. Recognizing this, FA units continue to improve their fire mission response time. These time standards represent the maximum amount of time a well-trained FA unit takes to place accurate fire on target. Accurate field artillery fires are a mandate, and no amount of speed in response times displaces this requirement. Trainers should be acutely aware of this fact and stress accuracy foremost in their training programs. As teamwork improves through training, response time should decrease without sacrificing accuracy. These time and accuracy standards apply only to Cannon units, for MLRS standards see ARTEP 6-397-30, MLRS Battery, or ARTEP 6-395, MLRS Battalion.

A-2. Purpose. This appendix has three purposes.

- a. It outlines the framework of MTP training objective time and accuracy standards for fire missions.
- b. It delineates the methodology by which fire mission total time standards should be timed for both basic and special missions.
- c. It provides an indication of strengths and weaknesses of each element of the gunnery team (FO, FDC, guns), by breaking down total mission time into section response times.

A-3. Fire Mission Accuracy Standards. There are two methods of determining if FFE achieves the MTP standard.

- a. The primary method is to subjectively decide, by observing from the observer's location, if the fires had the desired effect on the target. If so, the standard was met. If any element of the FFE (deviation, range, or HOB) was not obtained, the standard was not met
- b. Commanders are reminded that there are a myriad of variables that affect an artillery projectile's accuracy in terms of "hitting the target." If the commander cannot use the primary method of judging effects (visual determination) in his firing evaluation, the following graphical methods are offered. They use average firing data (the distribution of mean points of impact [MPI] around an aiming point) from a ballistics laboratory. There are two different procedures depending on whether or not the unit can meet the five elements of accurate predicted fire.
- c. If the five requirements for accurate predicted fire (target location and size, firing unit location, weapon and ammunition information, MET information [2 or 4 hour schedule], and computational procedures [see FM 6-40, Chapter 1]) can be met, and are properly applied, it is "statistically possible" to judge accuracy of the round being fired. Using a plotting board, or chart:
 - (a) Select a radius X value from Table A - 1 for the appropriate caliber weapon, charge, and angle of fire. Center the circle (X) about the aiming point.

(b) Using the corresponding radius Y value from the table, construct a circle in a manner to cover the largest quantity of rounds. The entire circle (Y) must lie on or inside circle X (Figure A - 1).

(c) To meet the standard, at least 75 percent of the total rounds fired must impact within the area of circle Y.

CAUTION

IF BCS IS BEING USED, THE AIMING POINT FOR A SPECIFIC HOWITZER MAY NOT BE THE SAME AS THE TARGET. (NOTE: As in a BCS special sheaf where howitzer aimpoints are selected 100 meters from the target location - ST 6-40-2)

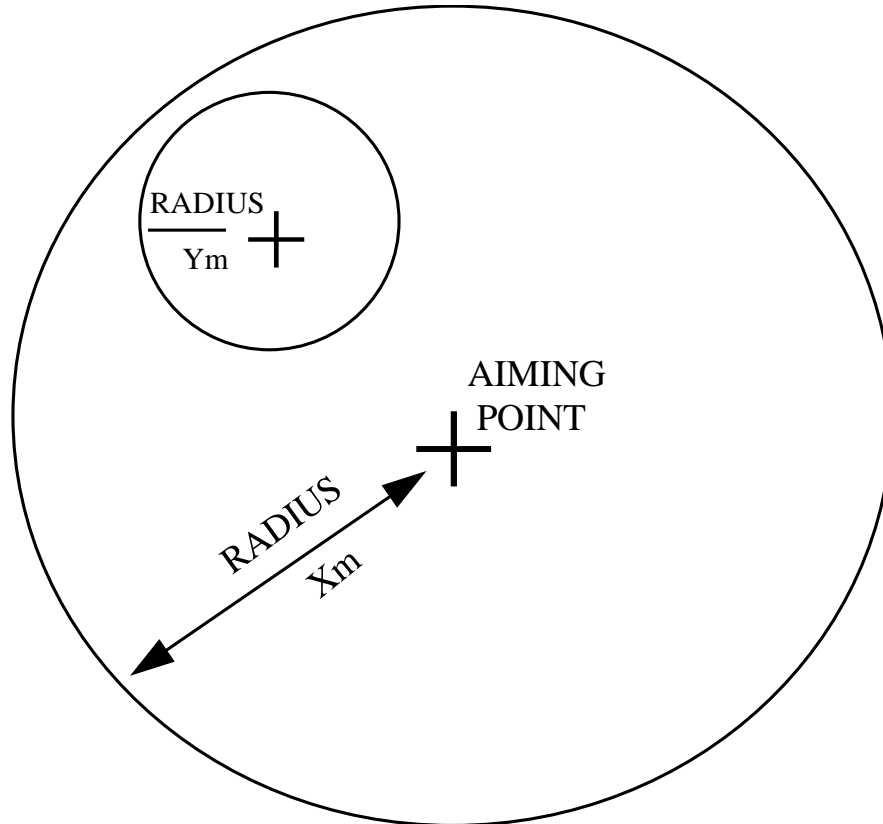


Figure A -1. Five elements of accurate predicted fire are met.

(2) If the five requirements for accurate predicted fire cannot be met, then the 5 steps to improved firing data (rounds burst at a point of known location, determine did-hit & should-hit data, determine total corrections, isolate position constants [by quantifying all measurable non-standard conditions] update total corrections); or an observer-adjusted mission, should be used. To determine accuracy:

(a) Construct an initial circle with a radius of 50 meters, centered around the aiming point at which the observer calls for in fire-for-effect.

(b) Next, determine the radius of circle Y from Table A-1. (Radius Y is equal to 2 probable errors in range.) Then place the center of the Y_m radius circle anywhere inside or on the circumference

of the 50-meter circle. Position the circle (Y) to include the maximum number of impacting rounds (Figure A-2).

(c) To meet the standard, at least 75 percent of the total rounds fired must impact within the area of circle Y.

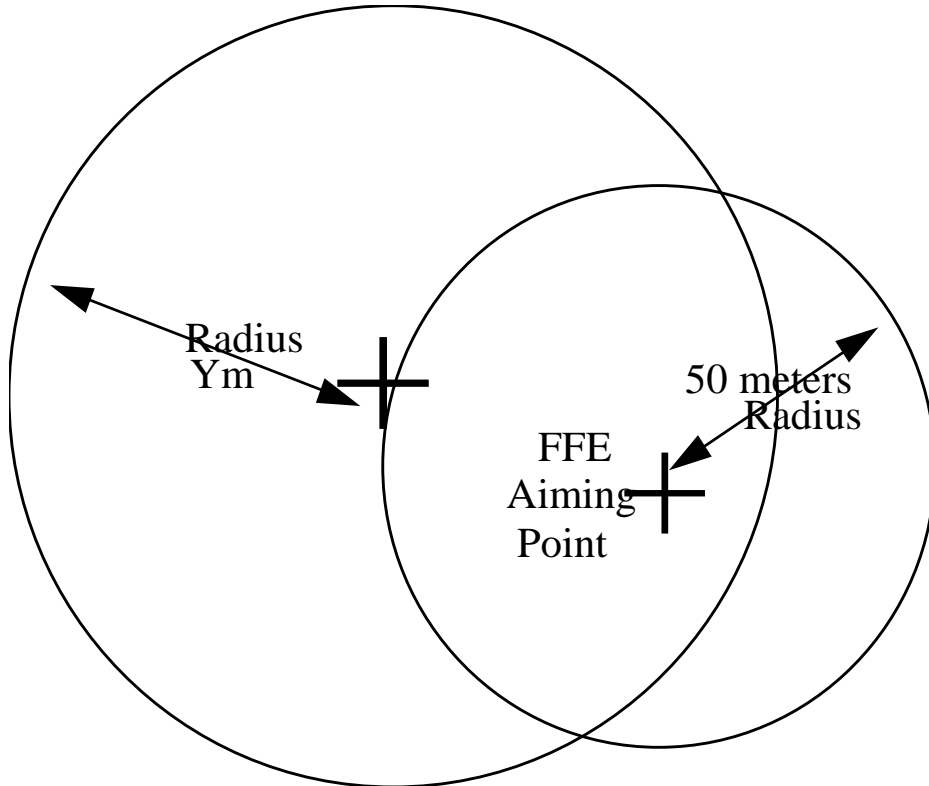


Figure A-2. Accurate predicted fire requirements not met.

(3) The preceding graphical methods were designed to determine the accuracy of a weapon. Trainers and evaluators must remember that most targets fired upon are area targets. Therefore, when judging effects, avoid the tendency to treat a grid coordinate sent by the observer as a point target. Consider the choice of munitions, method of attack, and acceptable dispersion of the FFE sheaf.

(4). Using a firefinder radar, or a G/VLLD, a round may be accurately plotted (within the tolerances of the system) and compared against the location of the aiming point. During the computation of special sheafs (for example, the circular sheaf used by the BCS), various aiming points are selected around the target. Care must be taken during any measurement of accuracy to ensure the burst is being compared against the proper aiming point for the howitzer being fired. This should reinforce the FDO's use of a proper sheaf in computing firing data (and resist the temptation to "close" the sheaf in an attempt to hit a "point" with an area weapon).

NOTE: If a firefinder radar is used to observe rounds impacting, it must be used in the friendly fire mode, with an "angle T" of less than 1,000 mils. A battery or platoon should be fired by piece, at 30 second intervals, or AMC (RADAR), for adequate control in spotting individual bursts.

Table A-1 X and Y Radius Values.

105 mm *										
ZONES		1	2	3	4	5	6	7	8	
RADIUS X	LOW	105	105	105	120	140	160	195	240	
	HIGH	110	110	110	125	150	180	225	NA	
RADIUS Y	LOW	80	60	60	70	60	40	55	95	
	HIGH	80	60	60	70	60	40	55	NA	

* Valid for HE-M1 projectile family.

155mm *												
PROPELLANTS		M3A1				M4A2					M119	M203
ZONE		2	3	4	5	3	4	5	6	7	A1/A2	
RADIUS X	LOW	105	120	135	155	140	145	160	185	220	280	345
	HIGH	110	125	145	165	145	155	175	210	255	325	415
RADIUS Y	LOW	65	80	70	55	110	75	65	60	70	105	125
	HIGH	65	80	75	60	115	80	70	70	75	115	145

* Valid HE-M107 and DPICM-M483A1 projectile families.

NOTE: The above radii for X were computed by using the variances in range and deflection. The variance in range is equal to the sum of the variances due to muzzle velocity, range wind, air temperature, air density, gun location, drag, and precision. The variance for deflection is equal to the sum of the variances in gun location, crosswind, aiming and precision. Each radius for Y is equal to 2 probable errors in range.

A-4. Fire Mission Total Time Standards. Tables A - 8 through A - 30 are based on the following:

a. The goal of the Field Artillery is to achieve first round fire for effect on every fire mission. By meeting the five elements of accurate predicted fire, or by applying the five steps to improved firing data, units will be able to deliver fires on target or be close enough to necessitate limited subsequent adjustments.

b. The fire mission tables use four components to determine a mission's total time standard: Observer time; Battalion FDC (Tactical Fire Direction) time; Platoon/Battery (Tactical & Technical Fire Direction) time; and Gun time. Time Standards are listed for each section.

c. TOTAL MISSION time equals: Total Observer Time + Battalion FDC Total Time + Platoon/Battery FDC Total Time + Total Gun Time (by system). For example: The Platoon/Btry FDC can be evaluated without BN FDC or Observers. Total mission time would be the sum of the evaluated sections.

d. Three schema are used to determine the time standards. They are represented by the three columns in each table. The digital column represents the use of digital methods at each node in the processing of the mission (e.g., observer-FED or HTU; FDC-BCS; Guns-GDUs). The manual column is a voice call for fire, manual FDC, and voice fire commands method. Finally, the M109A6 Paladin column. The first entry is "Tactical Fire Direction" which is done by FDC. The AFCS computes the technical solution for firing the howitzer. Paladin "gun time" in the tables includes the AFCS computation time.

e. If for some reason automation fails, a switch to manual methods will occur. This means that the evaluator may have to zigzag between the columns and take times from both (digital & manual/voice) columns and add them together to compute the "Total Mission Time" standard. Thirty seconds may be added at the component where automation fails, or is non-existent, to compensate for time to switch to manual. This may also apply to Paladin units reverting to degraded mode operations.

f. In the Adjust Fire mission tables, only one round observer adjustments are annotated (the initial round) and added to the FFE times when determining total mission time. That is, other than the radar or G/VLLD missions which by nature only allow for one round adjustments, the standard for adjust fire missions that employ subsequent rounds in adjustment must be calculated by adding the additional subsequent round adjustment times. Therefore, the "+" (plus) sign in these tables denote this possible addition of subsequent observer, FDC, and gun times for each of the subsequent rounds yielding a revised total mission time standard. Trainers and evaluators determine if subsequent adjustments in any mission become excessive.

g. Fuze quick is used as the baseline fuze in the fire mission tables. If fuze time or VT is used in a particular fire mission, 15 seconds will be added to the "gun time" standard for each round fired.

h. The MTP time standards were developed through operational testing and subsequent field validation. These standards do not include the following:

- (1) Safety time by external safety personnel.
- (2) Time of flight--shot to munitions impact.
- (3) Illumination--shot to burst (illumination adjustment).

(4) Illuminatio

A - 5. Evaluating Fire Mission Times.

a. The timing and sequencing for each fire mission (initial, subsequent correction, FFE) is shown in Table A - 2. This table is used to determine the basic start and stop times, by mission phase, for each fire mission. This overall mission table, when used in conjunction with the component section timing tables (A - 4 thru A - 6), gives the trainer/evaluator an accurate picture of how to determine unit fire mission timeliness.

b. Total mission time is usually kept using one of two methods. When training a FIST/COLT/FO, the observer trainer/evaluator is normally responsible for keeping both total mission time as well as the observer section time. Under general support (GS) unit conditions, where an observer may not be part of the unit evaluation, the FDC trainer/evaluator is normally responsible for keeping the total mission time as well as the FDC section time.

c. Safety time is embedded into the section's time to execute required actions (assumes chain of command personnel, e.g. safety certified chiefs of section). Units using other than chain of command safety personnel should record and subtract safety time from total mission time, if necessary.

d. Observer times are based on a team consisting of at least one observer assisted by an RTO/digital device operator (FO party, COLT, or FIST). Two such teams may be employed for firing a simultaneous mission.

e. Fire mission time standards may have to be modified by the trainer/evaluator when any of the following occurs:

(1) When bad weather prevents the effective execution of a fire mission (e.g., high, shifting winds when illumination rounds are being fired).

(2) When increased MOPP status in simulated NBC conditions adversely affect the unit's timeliness.

(3) When real or simulated personnel or equipment losses severely reduces unit capabilities.

(4) When the unit receives more fire missions than it can readily handle with the firing units that are available (e.g., high intensity war scenario).

f. If a howitzer misfires during the FFE phase of a fire mission, and the platoon leader or FDO calls the piece out of action, mission time will stop when all other pieces have fired in the initial volley of FFE. Misfires subsequently fired should be observed/evaluated for accuracy (effects).

g. There is no administrative requirement that every howitzer in the unit be in position and firing for each battalion mission. As a general rule, two-thirds of the battalion's firing capability should be in position and available to answer calls for fire. The bottom line is that the FDO is responsible to the commander for determining the volume of fire necessary to achieve the desired effects on the target and issues a fire order which appropriately reflects the number of available howitzers to fire.

h. Out of traverse missions may be a necessary part of some units' METL. The FA school has no established time standard for the execution of the re-laying of firing units on targets outside traverse limits. Units with these mission requirements should develop a standard for this procedure, battle drill it, and use this standard in training and evaluations. Once the firing unit is relayed, the tables in this Appendix will serve as the time standard for the fire mission itself.

i. Scheduling planned fires, as in a preparation or other program of fires, by its very nature is an untimed event. During the planning process for a battle, fire support personnel may be tasked to develop a particular schedule of fires to support the scheme of maneuver. This process is untimed. In an evaluation, the measure of success for a schedule of fires is whether or not it was executed when required, and had the intended effect on the target(s) to meet the commander's intent.

Table A -2. Overall Fire Mission Timing.

I. FFE Mission

PHASE	ACTION	TIMING
FFE	Observer identifies the target	Starts
	Last round in first volley of FFE is fired	Stops

II. Adjust Fire Mission

PHASE	ACTION	TIMING
Initial	Observer identifies the target	Starts
	Round is fired	Stops
Subsequent*	Initial/Subsequent round impacts	Starts
	Round is fired	Stops
FFE	Subsequent round (last) impacts	Starts
	Last round in first volley FFE is fired	Stops

* Timing of this phase is repeated for each adjustment

NOTES: (1) FA cannon battalions with general support (GS) missions have no assigned observer personnel. In evaluating these units, observer time may not be considered in the evaluation. Therefore time starts when the FDC receives target location in the call for fire (initially) and an adjustment correction or FFE (subsequently).

(2) The "stopwatch" method of timing the adjust fire mission shown in part II above automatically accounts for time of flight (TOF). If the total mission time evaluator prefers a "let the clock run" method of timing the mission, he would strip the TOF(s) out of the total time at the end of the mission (per paragraph A-5, b.)

A-6. Special Situations. The timing techniques in paragraph A-5 apply to all MTP missions--adjust fire, FFE, and special munitions. However, certain missions require slightly adjusted timing techniques to evaluate them properly.

a. Illumination and/or coordinated illumination. When an observer is involved in the evaluation of this mission, the evaluator must adjust the timing sequence because of the peculiar illumination TOF determination.

(1) Time of flight during illumination adjustment is defined as shot-to-illumination mark time.

(2) Time of flight during HE adjustment under illumination is also defined as illumination shot-to-mark time. Since this time includes both illumination TOF to effective illumination on the target, and the HE TOF impact, the time represented by illumination shot to mark encompasses all of the variables that need to be stripped out of this portion of mission timing.

b. Simultaneous mission (Table This mission is to evaluate a platoon/battery. The stress of performing the simultaneous mission has often been a valuable training tool for the firing platoon/battery. Evaluating the timing of two adjust fire missions simultaneously is more difficult than merely running 2 total mission watches, one for each mission. Table A-2 must be adapted to a timing sequence that realistically strips out the mission variables. That is, the stopping of the watch following each shot to eliminate TOF variables may not be accurate (e.g. while the round for Mission 1 is in flight to the target area, Mission 2 may be in progress in the FDC). Timing should be conducted as follows:
x4320

(1) During training not involving the evaluation of the observer team (GS type unit), the unit should not be charged with time when both the FDC and guns are idle and awaiting observer corrections for either mission. That is, should the occasion arise whereby rounds from both missions have been fired (guns idle), and the FDC has yet to receive a correction from the observer for either mission (FDC idle),

then that amount of time should be subtracted from the total mission time as often as this occurs in adjust fire. The second column of Table A-3 attempts to portray this occurrence.

(2) In evaluating a unit with an observer, the only variable time is when both rounds for the separate missions are in the air at the same time. This amount of time normally will be only a few seconds and may be negligible in the total mission time. The third column shown in Table A - 3 attempts to portray this occurrence.

Table A-3. Simultaneous Mission Timing.

ACTION	TIMING WITHOUT OBSERVER	TIMING WITH OBSERVER
Adjusting piece (Mission 1) fires a round.	Watch already running from FDC's receipt of initial tgt location	Watch already running from initial tgt identification by observer
Adjusting piece (Mission 2) fires a round.	Stop Watch	Stop Watch
Round 1 impacts.		Start Watch
Round 2 impacts.		Watch Running
The FO sends correction: the FDC receives correction (Mission 1).	Start Watch	Watch Running
The FO sends correction: the FDC receives correction (Mission 2).	Watch Running	Watch Running
Last round, first volley in FFE is fired.	STOP	STOP

A-7. Section Timing Standards.

a. For the FA gunnery team to meet the standards listed as MTP fire mission time standards, each element of the team (Observer, FDC, guns) must perform to standard.

b. Tables A - 4 thru A - 6 outline the "time starts - time stops" methodology for the timing of each phase of a fire mission for the Observer, FDC, and gun sections.

c. Ready to fire (RTF) time standards appear in Tables A - 7 thru A - 7.4. These tables prescribe the standards for the occupation of position areas for firing.

Table A - 4. Fire Mission Section Timing (FIST/COLT/FO Party).

PHASE	EVENT	ACTIONS	TIMING
Initial	Observer time	Detect and identify target Prepare call for fire Transmit target location to FDC, and receive acknowledgment Complete call for fire	Start Stop
Subsequent corrections	Observer time	Initial or subsequent round impacts Sense initial or subsequent round Determine subsequent corrections (if any) Transmit corrections (if any) to FDC, and receive acknowledgment	Start Stop
Fire for effect	Observer time	Initial or subsequent round impacts Sense initial or subsequent round Determine subsequent corrections (if any) Transmit corrections (if any) and FFE to FDC, and receive acknowledgment	Start Stop
Refinement/ surveillance		Report refinement, replot data, surveillance, and end of mission to FDC, as appropriate	Not timed

NOTE TO EVALUATOR: Missions times are based on a team of at least one observer assisted by an RTO/digital device operator. Observer times in the "Digital" column are valid for FED or HTU.

Table A - 5. Fire Mission Section Timing (FDC section).

PHASE	EVENT	ACTIONS	TIMING
Initial	Battalion FDC Tactical Fire Direction	FDC receives target location FDO receives complete call for fire FDO analyzes target for attack FDO approves or disapproves target FDO issues fire order	Start Stop
Initial	Plt/Battery FDC Tactical Fire Direction	Plt/Battery receives BN Fire Order (or when FDC receives target location if Plt/Btry is autonomous) FDO performs tactical checks FDO issues fire order	Start Stop
Initial	Technical Fire Direction	FDC/AFCS computes firing data FDO verifies data is safe * FDC sends firing data to gun(s) (xmit)	Start Stop
Subsequent	Technical Fire Direction	FDC receives subsequent correction or FFE FDC/AFCS computes firing data FDO verifies data is safe * FDC sends firing data to gun(s) (xmit)	Start Stop
Fire for Effect	Technical Fire Direction	FDC receives FFE FDC/AFCS computes firing data FDO verifies data is safe * FDC sends firing data to gun(s) (xmit)	Start Stop

* Combat safety check

Table A - 7. Ready to Fire (RTF) Times - General

OCCUPY POSITION AREA	PLT 4 GUN	PLT 3 GUN	BTRY 6 GUN
M102/M119A1 M198 M109 SERIES(less A6) M109A6*	10 min	10 min 10 min 3 min	12 min 13 min 12 min

Time Starts: (Non PALADIN) When first howitzer stops in its firing position.

Time Stops: When every howitzer section has completed TLABSPAP procedures; Trails, Lay, Aimpoint established, Boresight verified, Safe (verification of lay), Prefire checks performed, Ammunition Prepared (one round per gun); commo established with the FDC and critical elements* of the section chief's report rendered. The FDC has commo with guns, Battalion FDC, and FSE/FISTS, current sitmap posted, two means of computing firing data, XO's min QE determined (lowest charge), and has verified its data base.

(*Reference FM 6-50, these critical elements should be designated in the unit's TACSOP)

NOTES:

1. Times do not include position improvement.
2. Times assume site to crest determined by advanced party.
3. Add 5 minutes for night occupation
4. Add 10 minutes for occupation of unprepared position
5. Time standard for M119A1 applies to all configurations.
6. Tasks do not reflect any local range safety regulations, or unit safety policies (safety "Ts", taping guns, staking guns, verifying data via a "bump mission", etc.)
7. Standards for use of the Gun Laying and Positioning System are being determined and will be made available on the WIDD homepage once they have been determined. The WIDD homepage address is <http://155.219.39.98/doctrine/wddfrm.htm>.

*Paladin section standards include:

TIME STARTS: When the first howitzer stops in its firing position.

- a. Howitzer tactical move: verify location, verify direction, determine site data, input/verify firing limits (load EL, max EL, L/R sectors of fire), send piece status to POC, and concurrently perform prefire checks.

TIME STOPS: When the last howitzer stops sends its piece status to the POC.

- b. Howitzer survivability move: determine site data, verify firing limits, send piece status to POC, concurrently perform prefire checks.

c. POC: establish voice and digital comms with guns and Bn FDC/FISTS, verify database, verify gun locations on sitmap, receive and verify site data from guns, compute and announce XO's min QE, verify firing limits w/guns, post current sitmap, and transmit an "X" in the "READY" block of the AFU;UPDATE to Bn FDC (RTF).

Table A - 7.1 Ready to Fire Times - Emergency Mission (Hip Shoot)

OCCUPY POSITION AREA	PLT	BTRY
M102/M119A1		11 min
M198	12 min	12 min
M109 SERIES (less A6)	11 min	11 min
M109A6 (outside position area)*	75 sec	

Time Starts: When FDC receives fire mission warning order.

Time Stops: When the last round is fired in the first volley of FFE.

*Paladin Notes:

1. Moving Mission inside position area - find suitable location, arrive, verify immediate site to crest along commanded deflection, and execute fire mission. Time standard is 60 seconds.

2. Moving Mission outside position area - location, verify direction, arrive, verify immediate site to crest along commanded deflection, and execute fire mission. Standard is 75 sec.

Table A - 7.2 Ready to Fire Times – Air Assault Movement

I. Preparation standards for an air assault operation are:

30 minutes to rig all howitzers

40 minutes to rig all howitzers and prime movers

Time Starts: When the first vehicle arrives in the PZ.

Time Stops: When last vehicle is prepared (PZ posture).

II. Once the howitzers arrive at the new position the RTF standard is:

12 minutes for each serial (includes derigging and TLABSPAP - day time)

17 minutes night time

Time Starts: When first vehicle arrives in the firing position.

Time Stops: When every howitzer section and the FDC are ready to fire (see Table A-7).

NOTES:

1. The advance party is on the LZ, and lift helicopters arrive at the LZ.

2. If firing position is offset from LZ, allow 4 minutes for each serial to clear the LZ, then apply occupation time standards.

3. Time does not include position improvement.

4. Times assume site to crest determined by advanced party.

5. Add 10 minutes for occupation of unprepared position.

6. Time standard for M119A1 applies to all configurations.

Table A - 7.3 Ready to Fire Times - Air Assault Artillery Raid

440 I. Preparation standards for an air assault artillery raid:

30 minutes to rig howitzers.

Time Starts: When the first howitzer arrives at the PZ, or upon receipt of mission if the PZ is the firing position.

Time Stops: When the last howitzer is ready for liftoff.

II. Once the howitzers are in position:

10 minutes (day time)

20 minutes (night time)

Time Starts: When first howitzer touches down.

Time Stops: When the last howitzer is ready to fire.

NOTES:

1. Assumes raid is conducted with M119A1 in A-frame configuration with baseplate on.
2. Add 2 minutes if M119A1 is rigged in stowed position.
3. Add 2 minutes if M119A1 is rigged with baseplate removed.
4. Assumes all howitzers arrive at firing position in one serial.
5. Firing position is the LZ.

III. Fire mission is conducted IAW standards established in Tables A-8 thru A-30.

Time Starts: When howitzers are ready to fire.

Time Stops: When last round, first volley in FFE is fired.

IV. Extraction standards:

17 minutes to prepare howitzer for extraction, (19 minutes nighttime).

Time Starts: At EOM (command to march order for extraction is given).

Time Stops: When howitzers are ready to be extracted.

Table A - 7.4 Ready to Fire Times - Drop Zone Mission

Should the tactical situation require the Battery to conduct a fire mission from a drop zone, the following standards apply:

105mm: 15 minutes during the day (25 minutes at night).

155mm: 25 minutes during the day (40 minutes at night).

Time Starts: When last jumper, first pass, exits the aircraft.

Time Stops: After TLABSPAP procedures (less position improvement) are completed, and first round in adjustment is fired (adjust fire mission).

Table A - 8. Fire For Effect: When Ready; At My Command; or Time on Target (TOT).

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/Q	HE/Q	HE/Q	
OBSERVER	INITIAL ROUND				
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION	:55	:45	:55	
	<i>TOTAL OBSERVER TIME</i>	:55	:45	:55	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION TIME</i>	:35	:35	:35	
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION				
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION	:20	:30		
	<i>FDC TOTAL TIME</i>	:35	:45	:15	
GUNS	EACH ROUND	105-mm	:30	:30	:30
		155-mm (SP)	:45	:45	
		155-mm (T)	1:00	1:00	
	<i>TOTAL GUN TIME</i>	105-mm	:30	:30	:30
		155-mm (SP)	:45	:45	
		155-mm (T)	1:00	1:00	
<i>TOTAL MISSION TIME WITH OBSERVER PHASE</i>		105-mm	2:35	2:35	2:15
		155-mm (SP)	2:50	2:50	
		155-mm (T)	3:05	3:05	

Note:

1. These three fire missions have the same time standards.
2. For TOT missions, all rounds must impact at + or - 03 seconds of TOT time.

Table A - 9. Fire For Effect, Large Segmented Target.

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/Q	HE/Q	HE/Q	
OBSERVER	INITIAL ROUND				
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION	:55	:45	:55	
	<i>TOTAL OBSERVER TIME</i>	:55	:45	:55	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>	1:05	1:00	1:05	
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION				
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION	:20	:30		
	<i>FDC TOTAL TIME</i> (note 1)	:35	:45	:15	
GUNS	EACH ROUND	105-mm	:30	:30	:30
		155-mm (SP)	:45	:45	
		155-mm (T)	1:00	1:00	
	<i>TOTAL GUN TIME</i>	105-mm	:30	:30	:30
		155-mm (SP)	:45	:45	
		155-mm (T)	1:00	1:00	
<i>TOTAL MISSION TIME WITH OBSERVER PHASE</i>		105-mm	3:05	3:00	ar 2:45
		155-mm (SP)	3:20	3:15	
		155-mm (T)	3:35	3:30	

NOTES:

(1) Assumes each firing element, platoon or battery, fires a single target location.

(2) If only Platoon/Btry FDC is being evaluated on these procedures the "Tactical Fire Direction" time would be 1 minute, 05 seconds.

Table A – 10. Fire For Effect, FASCAM (Target of Opportunity)*

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/TI	HE/TI	HE/TI	
OBSERVER	INITIAL ROUND				
	EACH SUBSEQUENT CORRECTION				
	FFE FASCAM TARGET	:55	:45	:55	
	<i>TOTAL OBSERVER TIME</i>	:55	:45	:55	
BATTALION FDC	TACTICAL FIRE DIRECTION	(note 1)	15:00	(note 1)	
PLATOON/ BATTERY FDC	INITIAL ROUND TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL AIMPOINT TECHNICAL FIRE DIRECTION	:20	:30	:15	
	EACH SUBSEQUENT AIMPOINT TECHNICAL FIRE DIRECTION (note 2)	(:20)	(:30)	(:15)	
	FFE TECHNICAL FIRE DIRECTION				
	<i>FDC TOTAL TIME</i> (note 3)	:35 +	:45 +	:30 +	
GUNS	EACH ROUND	155-mm (SP) 155-mm (T)	:45 1:00	:45 1:00	:45
	TOTAL GUN TIME	155-mm (SP) 155-mm (T)	(note 4)	(note 4)	(note 4)
TOTAL MISSION TIME WITH OBSERVER PHASE (note 5)		155-mm (SP) 155-mm (T)	17:15 + 17:30 +	17:15 + 17:30 +	17:10 +

* Unit is evaluated on determining FASCAM data. HE data may be computed separately and delivered for execution. Release of FASCAM has been received from proper authority. Coordination has been affected with the Engineers. Minefield Safety Zone is computed and disseminated per unit SOP.

NOTES:

- (1) No digital method of determining FASCAM aimpoint data is available. Use manual method standard (15:00 min.).
- (2) Time standard for the FDC is determined by the number of aimpoints required. Multiply the number of subsequent aimpoints by value shown & add to the FDC total time = new FDC total time.
- (3) For HE execution, time stops at determination of FASCAM data, time starts again when FFE HE/TI (to simulate FASCAM) data is sent to the guns.

- (4) Multiply the number of rounds fired by the time shown (by weapon system), that time becomes total gun time. (Add 15 seconds per round, gun time, for high angle fire.)
- (5) Total mission time = new total observer time + new FDC total time + total gun time.

Table A – 11

Fire For Effect: Priority Target.; or Final Protective Fire.

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/Q	HE/Q	HE/Q	
OBSERVER	INITIAL ROUND				
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION				
	<i>TOTAL OBSERVER TIME</i>	:10	:10	:10	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>	:05	:10	:05	
PLATOON/ BATTERY FDC	<i>TACTICAL FIRE DIRECTION</i>	:05	:05	(note 1) :05	
	INITIAL ROUND TECHNICAL FIRE DIRECTION				
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION				
	<i>FDC TOTAL TIME</i>	:05	:05	:05	
GUNS	EACH ROUND	105-mm	:20	:20	:15
		155-mm (SP)	:30	:30	
		155-mm (T)	:30	:30	
	<i>TOTAL GUN TIME</i>	105-mm	:20	:20	:15
		155-mm (SP)	:30	:30	
		155-mm (T)	:30	:30	
<i>TOTAL MISSION TIME</i>		105-mm	:40	:45	:35
		155-mm (SP)	:55	1:00	
		155-mm (T)	1:10	1:15	

NOTE:

(1) These two separate fire missions have the same time standards.

(2) Firing data precomputed and stored in the AFCS. The AFCS can store firing data for, either the Copperhead target or the Final Protective Fire (FPF) but not both. These time standards apply to the mission that is stored in the AFCS.

(3) For Non-Paladin units this would be an on-call mission with the tubes laid on the data. Firing data stored in the BCS.

Table A – 12. Fire For Effect, Immediate Suppression.

TYPE OF COMPUTATION		x8640 DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/Q	HE/Q	HE/Q	
OBSERVER	INITIAL ROUND				
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION	:55	:25	:55	
	<i>TOTAL OBSERVER TIME</i>	:55	:45	:55	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>	:35	:35	:35	
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION				
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION	:20	:30		
	<i>FDC TOTAL TIME</i>	:35	:45	:15	
GUNS	EACH ROUND	105-mm	:30	:30	:30
		155-mm (SP)	:45	:45	
		155-mm (T)	1:00	1:00	
	<i>TOTAL GUN TIME</i>	105-mm	:30	:30	:30
		155-mm (SP)	:45	:45	
		155-mm (T)	1:00	1:00	
<i>TOTAL MISSION TIME</i>		105-mm	2:35	2:35	2:15
		155-mm (SP)	2:50	2:50	
		155-mm (T)	3:05	3:00	

Table A – 13. Fire For Effect, Immediate Smoke.

TYPE OF COMPUTATION		DIGITAL		VOICE/ MANUAL COMPS		M109A6 PALADIN AFCS	
		WP/Q	HC/ TI	WP/Q	HC/ TI	WP/Q	SMK/ TI
(note 1) FFE SHELL/FUZE COMBINATION							
OBSERVER	INITIAL ROUND						
	EACH SUBSEQUENT CORRECTION						
	FFE CORRECTION	:55		:25		:55	
	<i>TOTAL OBSERVER TIME</i>	:55		:25		:55	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>	:35		:35		:35	
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15		:15		:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION	:20		:30			
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION						
	FFE TECHNICAL FIRE DIRECTION		:20		:30*		
	<i>FDC TOTAL TIME</i>	:55		1:15		:15	
GUNS	EACH ROUND	105-mm	:30	:45	:30	:45	:45
		155-mm (SP)	:45	1:00	:45	1:00	
		155-mm (T)	1:00	1:15	1:00	1:15	
	<i>TOTAL GUN TIME</i>	105-mm	1:15		1:15		:45
155-mm (SP)	1:45		1:45				
155-mm (T)	2:15		2:15				
<i>TOTAL MISSION TIME</i>		105-mm	3:40		3:30		2:30
		155-mm (SP)	4:10		4:00		
		155-mm (T)	4:40		4:30		

NOTES:

(1) (105mm) 1st round, WP/Q, remaining rounds HC smoke

(2) (155mm) Add 15 sec to FDC for M825 smoke workaround, if necessary.

Table A – 14. Fire For Effect, Copperhead Target of Opportunity.

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		COPPER- HEAD	COPPER- HEAD	COPPER- HEAD	
80					
OBSERVER	INITIAL ROUND				
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION	:55	:45	:55	
	<i>TOTAL OBSERVER TIME</i>	:55	:45	:55	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>	:35	:35	:35	
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION				
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION	:20	:40		
	<i>FDC TOTAL TIME</i>	:35	:55	:15	
GUNS	EACH ROUND (note 1)	155-mm (SP)	1:00	1:00	1:00
		155-mm (T)	1:15	1:15	
	<i>TOTAL GUN TIME</i>	155-mm (SP)	1:00	1:00	1:00
		155-mm (T)	1:15	1:15	
<i>TOTAL MISSION TIME</i>		155-mm (SP)	2:30	3:15	2:45
		155-mm (T)	2:30	3:30	

NOTES:

(1) Gun times assume unpackaging inspections have been performed on rounds in tactical assembly areas, or as part of position improvement.

Table A – 15 Fire For Effect, Copperhead Priority Mission*.

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/TI	HE/TI	HE/TI	
OBSERVER	INITIAL ROUND				
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION				
	<i>TOTAL OBSERVER TIME</i>	:10	:10	:10	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>		:25	:25	:25
PLATOON/ BATTERY FDC	<i>TACTICAL FIRE DIRECTION</i>		:05	:05	:05
	INITIAL ROUND TECHNICAL FIRE DIRECTION				
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION				
	<i>FDC TOTAL TIME</i>		:05	:05	:05
GUNS (note 1)	EACH ROUND (note 1)	155-mm (SP)	:45	:45	:45
		155-mm (T)	1:00	1:00	
	<i>TOTAL GUN TIME</i>	155-mm (SP)	:45	:45	:45
		155-mm (T)	1:00	1:00	
<i>TOTAL MISSION TIME WITH OBSERVER PHASE</i>		155-mm (SP)	1:25	1:25	1:25
		155-mm (T)	1:40	1:40	

* This priority mission assumes computations have been completed, and firing data is on the guns, or targets loaded in the buffer. Round is on the tray.

NOTES:

(1) Gun times assume unpackaging inspections have been performed on rounds in tactical assembly areas, or as part of position improvement.

Table A – 16 Fire For Effect, ICM/DPICM

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/TI	HE/TI	HE/TI	
OBSERVER	INITIAL ROUND				
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION	:55	:45	:55	
	<i>TOTAL OBSERVER TIME</i>	7920 :55	:45	:55	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>	:35	:35	:35	
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION				
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION	:20	:30		
	<i>FDC TOTAL TIME</i>	:35	:45	:15	
GUNS	EACH ROUND	105-mm	:45	:45	
		155-mm (SP)	1:00	1:00	:45
		155-mm (T)	1:15	1:15	
	<i>TOTAL GUN TIME</i>	105-mm	:45	:45	
		155-mm (SP)	1:00	1:00	:45
		155-mm (T)	1:15	1:15	
<i>TOTAL MISSION TIME</i>		105-mm	2:50	2:50	
		155-mm (SP)	3:05	3:05	2:30
		155-mm (T)	3:20	3:20	

* Unit is evaluated on determining ICM/DPICM data. HE/TI data may be computed separately and delivered for Fire-for-Effect.

Table A – 17 Fire For Effect: Schedule of Fires/Fire Plan

	TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS
	FFE SHELL/FUZE COMBINATION		HE/Q	HE/Q	HE/Q
OBSERVER	INITIAL ROUND				
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION				
	<i>TOTAL OBSERVER TIME</i>		Note 1	Note 1	Note 1
BATTALION FDC	TACTICAL FIRE DIRECTION		Note 1	Note 1	Note 1
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION		:15+	:15+	:15+
	INITIAL ROUND TECHNICAL FIRE DIRECTION				
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION		:20+	:30+	
	<i>FDC TOTAL TIME</i>		:35+	:45+	:15+
GUNS	EACH ROUND	105-mm	:30	:30	
		155-mm (SP)	:45	:45	:30
		155-mm (T)	1:00	1:00	
	<i>TOTAL GUN TIME</i>	105-mm	:30+	:30+	
	155-mm (SP)	:45+	:45+	:30+	
	155-mm (T)	1:00+	1:00+		
<i>TOTAL MISSION TIME</i>	105-mm	1:05+	1:15+		
	155-mm (SP)	1:20+	1:30+	:45+	
	155-mm (T)	1:35+	1:45+		

1. The preparation of a schedule of fires or fire plan, is not a timed event. See note "i" on page 6. The delivery of fires is timed. If there is an H-Hour then the rounds must impact within 03 seconds.
2. If any target is High angle or fuze time add 15 seconds to gun time.
3. Total mission time would be the sum X number of missions in the plan.

Table A – 18 Fire For Effect: Counterfire

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/Q	HE/Q	HE/Q	
OBSERVER	INITIAL ROUND				
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION	:55	:45	:55	
	<i>TOTAL OBSERVER TIME</i>	:55	:45	:55	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>	:35	:35	:35	
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION	720			
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION	:20	:30		
	<i>FDC TOTAL TIME</i>	:35	:45	:15	
GUNS	EACH ROUND	105-mm	:30	:30	:30
		155-mm (SP)	:45	:45	
		155-mm (T)	1:00	1:00	
	<i>TOTAL GUN TIME</i>	105-mm	:30	:30	:30
		155-mm (SP)	:45	:45	
		155-mm (T)	1:00	1:00	
<i>TOTAL MISSION TIME</i>		105-mm	2:35	2:35	2:15
		155-mm (SP)	2:50	2:50	
		155-mm (T)	3:05	3:05	

Table A – 19

Fire For Effect: Mass (With Echelons Above Battalion)

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/Q	HE/Q	HE/Q	
OBSERVER	INITIAL ROUND				
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION				
	<i>TOTAL OBSERVER TIME</i>	Note 1	Note 1	Note 1	
BATTALION FDC	TACTICAL FIRE DIRECTION	:35	:35	:35	
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION				
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION	:20	:30		
	<i>FDC TOTAL TIME</i>	:35	:45	:15	
GUNS	EACH ROUND	105-mm	:30	:30	:30
		155-mm (SP)	:45	:45	
		155-mm (T)	1:00	1:00	
	<i>TOTAL GUN TIME</i>	105-mm	:30	:30	:30
		155-mm (SP)	:45	:45	
		155-mm (T)	1:00	1:00	
<i>TOTAL MISSION TIME</i>		105-mm	1:40	1:50	1:20
		155-mm (SP)	1:55	2:05	
		155-mm (T)	2:10	2:20	

1. The observer normally would not be evaluated on this mission. This mission would be generated at echelons above Bn.

Table A – 20 Fire For Effect: Engage a Moving Target, AMC or TOT

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/Q	HE/Q	HE/Q	
OBSERVER (note #1)	INITIAL ROUND	50	45	50	
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION	20	10	20	
	<i>TOTAL OBSERVER TIME</i>	1:10	:55	1:10	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>		:35	:25	:35
PLATOON/ BATTERY FDC	<i>TACTICAL FIRE DIRECTION</i>		:15	:15	:15
	INITIAL ROUND TECHNICAL FIRE DIRECTION				
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION		:20	:20	
	<i>FDC TOTAL TIME</i>		:35	:35	:15
GUNS	EACH ROUND	105-mm	40 :30	:30	:15
		155-mm (SP)	:45	:45	
		155-mm (T)	1:00	1:00	
	<i>TOTAL GUN TIME</i>	105-mm	:30	:30	:15
		155-mm (SP)	:45	:45	
155-mm (T)		1:00	1:00		
<i>TOTAL MISSION TIME</i>		105-mm	2:50	2:25	2:15
		155-mm (SP)	3:05	2:40	
		155-mm (T)	3:20	2:55	

Notes:

1. This procedure is performed using the FFE mission type, and either At My Command or Time on Target Method of Control. If undesirable effects are achieved, the observer may make corrections and repeat the mission.

Table A – 21

CONDUCT: Registration, with Radar

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/TI	HE/TI	HE/TI	
OBSERVER	INITIAL ROUND				
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION				
	<i>TOTAL OBSERVER TIME</i>				
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>	1:15	1:00	1:15	
PLATOON/ BATTERY FDC (note #1)	TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION				
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION	:20	:30		
	<i>FDC TOTAL TIME</i>	:35	:45	:15	
GUNS	EACH ROUND (note #2)	105-mm	:30	:30	:30
		155-mm (SP)	:45	:45	
		155-mm (T)	1:00	1:00	
	<i>TOTAL GUN TIME</i> (note# 3)	105-mm	:30+	:30+	:30+
155-mm (SP)	:45+	:45+			
155-mm (T)	1:00+	1:00+			
<i>TOTAL MISSION TIME</i>		105-mm	2:20+	2:15+	2:00+
		155-mm (SP)	2:35+	2:30+	
		155-mm (T)	2:50+	2:45+	

NOTES:

1. If Platoon/Btry FDC orients RADAR/conducts the registration, the FDC Time would be 1:15.
2. If time fuze is fired for a HB registration, add 15 seconds to gun times.
3. Multiply gun time by number of rounds fired.
4. FDC must ensure that RADAR has the following data: Btry Loc., TGT Loc (to include ALT), QE fired, MAX ORD.

Table A – 22 CONDUCT: HB/MPI Registration (with at Least 2 Observers)

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/Q	HE/Q	HE/Q	
OBSERVER (note 1)	INITIAL ROUND				
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION				
	<i>TOTAL OBSERVER TIME</i>				
BATTALION FDC	TACTICAL FIRE DIRECTION	1:15	1:15	1:15	
PLATOON/(note 2) BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION				
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION	:20	:30		
	<i>FDC TOTAL TIME</i>	:35	:45	:15	
GUNS (note 3)	EACH ROUND	105-mm	:45	:45	
		155-mm (SP)	1:00	1:00	
		155-mm (T)	1:15	1:15	
	<i>TOTAL GUN TIME</i>	105-mm	:45+	:45+	
	155-mm (SP)	1:00+	1:00+	:45+	
	155-mm (T)	1:15+	1:15+		
<i>TOTAL MISSION TIME</i>		105-mm	2:35+	2:45+	
	155-mm (SP)	2:50+	3:00+	2:15+	
	155-mm (T)	3:05+	3:15+		

NOTES:

- Observer participation is not timed for this mission.
- If Platoon/Btry FDC orients the observers/conducts the registration, the FDC Time would be 1:15.
- This mission normally needs 6-8 rounds. HB is the most desirable method; it gives us a fuze TI correction. If MPI is conducted subtract 15 seconds from "EACH ROUND" gun time.

Table A – 23. Adjust Fire, Forward Observer.

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/Q	HE/Q	HE/Q	
OBSERVER	INITIAL ROUND	:55	:45	:55	
	(note 1) EACH SUBSEQUENT CORRECTION	:10	:10	:10	
	FFE CORRECTION	:10	:10	:10	
	<i>TOTAL OBSERVER TIME</i>	1:05 +	:55 +	1:05 +	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>	:35	:35	:35	
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION	:20	:30		
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION (note 2)	(:20)	(:30)		
	FFE TECHNICAL FIRE DIRECTION	:20	:30		
	<i>FDC TOTAL TIME</i>	:55 +	1:15 +	:15+	
GUNS	EACH ROUND	105-mm	:30	:30	:30
		155-mm (SP)	:45	:45	
		155-mm (T)	1:00	1:00	
	<i>TOTAL GUN TIME</i> (note 3)	105-mm	1:00 +	1:00 +	1:00 +
155-mm (SP)	1:30 +	1:30 +			
155-mm (T)	2:00 +	2:00 +			
<i>TOTAL MISSION TIME WITH OBSERVER PHASE</i> (note 4)		105-mm	3:35 +	3:45 +	2:55 +
		155-mm (SP)	4:05 +	4:15 +	
		155-mm (T)	4:35 +	4:45 +	

NOTES:

- (1) Multiply the number of subsequent adjustments by value shown & add to the total observer time = new total observer time.
- (2) Multiply the number of subsequent adjustments by value shown & add to the FDC total time = new FDC total time.
- (3) Multiply the number of subsequent rounds by the "each round" time shown & add to the total gun time = new total gun time.
- (4) Total mission time = new total observer time + new FDCs total time + new total gun time.

Table A – 24. Adjust Fire, Forward Observer Using a G/VLLD; or
Adjust Fire, Radar Observed.

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/Q	HE/Q	HE/Q	
OBSERVER	INITIAL ROUND	:55	:45	:55	
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION	:10	:10	:10	
	<i>TOTAL OBSERVER TIME</i>	1:05	:55	1:05	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>	:35	:35	:35	
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION	:20	:30		
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION	:20	:30		
	<i>FDC TOTAL TIME</i>	:55	1:15	:15	
GUNS	EACH ROUND	105-mm	:30	30	:30
		155-mm (SP)	:45	:45	
		155-mm (T)	1:00	1:00	
	<i>TOTAL GUN TIME</i>	105-mm	1:00	1:00	1:00
		155-mm (SP)	1:30	1:30	
155-mm (T)		2:00	2:00		
<i>TOTAL MISSION TIME WITH OBSERVER PHASE</i>		105-mm	3:35	3:45	2:55
		155-mm (SP)	4:05	4:15	
		155-mm (T)	4:35	4:45	

Note:

1. Normally there is only one round in adjustment.
2. These two separate fire missions have the same time standards.

Table A – 25. Adjust Fire, High-Angle, Forward Observer.

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/Q	HE/Q	HE/Q	
x5040					
OBSERVER	INITIAL ROUND	:55	:45	:55	
	(note 1) EACH SUBSEQUENT CORRECTION	(:10)	(:10)	(:10)	
	FFE CORRECTION	:10	:10	:10	
	<i>TOTAL OBSERVER TIME</i>	1:05 +	:55 +	1:05 +	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>	:35	:35	:35	
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION	:20	:30		
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION (note 2)	(:20)	(:30)		
	FFE TECHNICAL FIRE DIRECTION	:20	:30		
	<i>FDC TOTAL TIME</i>	:55 +	1:15 +	:15 +	
GUNS	EACH ROUND	105-mm	:45	45	:45
		155-mm (SP)	1:00	1:00	
		155-mm (T)	1:15	1:15	
	<i>TOTAL GUN TIME</i> (note 3)	105-mm	1:30 +	1:30 +	1:30 +
155-mm (SP)	2:00 +	2:00 +			
155-mm (T)	2:30 +	2:30 +			
<i>TOTAL MISSION TIME WITH OBSERVER PHASE</i> (note 4)		105-mm	4:05 +	4:15 +	3:25 +
		155-mm (SP)	4:35 +	4:45 +	
		155-mm (T)	5:05 +	5:15 +	

NOTES:

- (1) Multiply the number of subsequent adjustments by value shown & add to the total observer time = new total observer time.
- (2) Multiply the number of subsequent adjustments by value shown & add to the FDC total time = new FDC total time.
- (3) Multiply the number of subsequent rounds by the "each round" time shown & add to the total gun time = new total gun time.
- (4) Total mission time = new total observer time + new FDC total time + new total gun time.

Table A –26. Adjust Fire, High-Angle, Forward Observer Using a G/VLLD;
Adjust Fire, High-Angle, Radar Observed

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		HE/Q	HE/Q	HE/Q	
OBSERVER	INITIAL ROUND	:55	:45	:55	
	EACH SUBSEQUENT CORRECTION				
	FFE CORRECTION	:10	:10	:10	
	<i>TOTAL OBSERVER TIME</i>	1:05	:55	1:05	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>	:35	:35	:35	
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION	:20	:30		
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION				
	FFE TECHNICAL FIRE DIRECTION	:20	:30		
	<i>FDC TOTAL TIME</i>	:55	1:15	:15	
GUNS	EACH ROUND	105-mm	:45	:45	
		155-mm (SP)	1:00	1:00	:45
		155-mm (T)	1:15	1:15	
	<i>TOTAL GUN TIME</i>	105-mm	1:30	1:30	
	155-mm (SP)	2:00	2:00	1:30	
	155-mm (T)	2:30	2:30		
<i>TOTAL MISSION TIME WITH OBSERVER PHASE</i>		105-mm	4:05 +	4:15 +	
	155-mm (SP)	4:35 +	4:45 +	3:25 +	
	155-mm (T)	5:05 +	5:15 +		

Note:

1. Normally there is only one round in adjustment.
2. These two separate fire missions have the same time standards.

Table A – 27. Adjust Fire: Coordinated Illumination *

TYPE OF COMPUTATION		DIGITAL		VOICE/ MANUAL COMPS		M109A6 PALADIN AFCS		
		ILLUM/T I	HE/Q	ILLUM/ TI	HE/Q	ILLUM/ TI	HE/Q	
OBSERVER rdrw15	INITIAL ROUND	:55	:55	:45	:45	:55	:55	
	EACH SUBSEQUENT CORRECTION (note 1)	(:10)	(:10)	(:10)	(:10)	(:10)	(:10)	
	FFE CORRECTION		:10		:10		:10	
	<i>TOTAL OBSERVER TIME</i>	2:00 +		1:40 +		2:00 +		
BATTALION FDC	TACTICAL FIRE DIRECTION	:35	:10	:35	:10	:35	:10	
	<i>BATTALION FDC TOTAL TIME</i>	:45		:45		:45		
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION	:20	:20	1:00	:30			
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION (note 2)	(:20)	(:20)	(:30)	(:30)			
	FFE TECHNICAL FIRE DIRECTION		:20		:30			
	<i>FDC TOTAL TIME</i>	1:30 +		2:30 +		:30+		
GUNS	EACH ROUND	105-mm	:45	:30	:45	:30		
		155-mm (SP)	1:00	:45	1:00	:45	:45	:30
		155-mm (T)	1:15	1:00	1:15	1:00		
	<i>TOTAL GUN TIME</i> (note 3)	105-mm	1:45 +		1:45 +			
	155-mm (SP)	2:30 +		2:30 +		1:15 +		
	155-mm (T)	3:15 +		3:15 +				
<i>TOTAL MISSION TIME WITH OBSERVER PHASE</i> (note 4)		105-mm	6:00+		6:40+		4:30+	
	155-mm (SP)	6:45+		7:25+				
	155-mm (T)	7:30+		8:10+				

* This mission doesn't start until target has been identified and "mark" time is determined. The times denote 1 round of Illum, 1 round HE (initial), and 1 round HE in effect. Other rounds in adjustment, either Illum and/or HE must be added to determine overall time.

NOTES:

(1) Multiply the number of subsequent adjustments for both shell/fuze combinations by value shown & add to the total observer time = new total observer time

- (2) Multiply the number of subsequent adjustments for both shell/fuze combinations by value shown & add to the FDC total time = new FDC total time
- (3) Multiply the number of subsequent rounds by the "each round" time shown & add to the total gun time = new total gun time.
- (4) Total mission time = new total observer time + new FDC total time + total gun time.

Table A – 28 Adjust Fire: Simultaneous Missions.

TYPE OF COMPUTATION		DIGITAL		VOICE/ MANUAL COMPS		M109A6 PALADIN AFCS	
		HE/Q		HE/Q		HE/Q	
FFE SHELL/FUZE COMBINATION		Msn1	Msn2	Msn1	Msn2	Msn1	Msn2
OBSERVER	INITIAL ROUND	:55	:55	:45	:45	:55	:55
	EACH SUBSEQUENT CORRECTION ^(note 2)	(:10)	(:10)	(:10)	(:10)	(:10)	(:10)
	FFE CORRECTION	:10	:10	:10	:10	:10	:10
	<i>TOTAL OBSERVER TIME</i>	2:10 +		1:50 +		2:10 +	
BATTALION FDC	TACTICAL FIRE DIRECTION	:35	:35	:35	:35	:35	:35
	<i>TOTAL TACTICAL FIRE DIRECTION</i>	1:10		1:10		1:10	
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	:15	:15	:15
	INITIAL ROUND TECHNICAL FIRE DIRECTION	:20	:20	:30	:30		
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION ^(note 3)	(:20)	(:20)	(:30)	(:30)		
	FFE TECHNICAL FIRE DIRECTION	:20	:20	:30	:30		
	<i>FDC TOTAL TIME</i>	1:50 +		2:30 +		:30 +	
rtGUNS	EACH ROUND	105-mm	:30	:30			
		155-mm (SP)	:45	:45		:30	
		155-mm (T)	1:00	1:00			
<i>TOTAL GUN TIME</i> (note 4)	105-mm	2:00 +	2:00 +				
	155-mm (SP)	3:00 +	3:00 +		1:00 +		
	155-mm (T)	4:00 +	4:00 +				
<i>TOTAL MISSION TIME</i> (note 5)	105-mm	7:10 +	7:30 +				
	155-mm (SP)	8:10 +	8:30 +		4:50 +		
	155-mm (T)	9:10 +	9:30 +				

NOTES: For timing sequence see instructions Table A-3 on page 9.

(1) This should be a Platoon/Btry mission to gain optimum training value.

(2) Multiply the number of subsequent adjustments by the value shown & add to the total observer time = new total observer time.

(3) Multiply the number of subsequent adjustments by the value shown & add to the FDC total time = new FDC total time.

- (4) Multiply the number of subsequent rounds by the "each round" time shown & add to the total gun time = new total gun time.
- (5) Total mission time = Platoon/Battery FDC total time + new total gun time.

Table A – 29. Adjust Illumination*.

TYPE OF COMPUTATION		DIGITAL	VOICE/ MANUAL COMPS	M109A6 PALADIN AFCS	
FFE SHELL/FUZE COMBINATION		ILLUM/TI	ILLUM/TI	ILLUM/TI	
OBSERVER	INITIAL ROUND	:55	:45	:55	
	(note #1) EACH SUBSEQUENT CORRECTION	:10	:10	:10	
	FFE CORRECTION				
	<i>TOTAL OBSERVER TIME</i>	1:05 +	:55 +	1:05 +	
BATTALION FDC	<i>TACTICAL FIRE DIRECTION</i>	:35	:35	:35	
PLATOON/ BATTERY FDC	TACTICAL FIRE DIRECTION	:15	:15	:15	
	INITIAL ROUND TECHNICAL FIRE DIRECTION	:25	1:00		
	EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION (note 1)				
	FFE TECHNICAL FIRE DIRECTION (note # 1)				
	<i>FDC TOTAL TIME</i>	:40 +	1:15++	:15 +	
GUNS	EACH ROUND	105-mm	:45	:45	
		155-mm (SP)	1:00	1:00	:45
		155-mm (T)	1:15	1:15	
	<i>TOTAL GUN TIME</i> (note 2)	105-mm	1:30 +	1:30 +	
	155-mm (SP)	2:00 +	2:00 +	1:30	
	155-mm (T)	2:30 +	2:30 +		
<i>TOTAL MISSION TIME</i> (note 3)	105-mm	3:50 +	4:15 +		
	155-mm (SP)	4:20 +	4:45 +	3:25+	
	155-mm (T)	4:50 +	5:15 +		

* This mission denotes only the times for the first round fired. Times for subsequent volleys fired must be added to the total time (see notes).

Paladin units firing more than a "one gun illum" mission (e.g., a range or lateral spread), use the time standards from the Digital column.

NOTES:

(1) Multiply the number of subsequent adjustments by the value shown & add to observer or FDC total time = new observer or FDC total time.

(2) Multiply the number of subsequent rounds by the "each round" time shown & add to the total gun time = new total gun time.

(3) Total mission time = new observer total time + new FDC total time + new total gun time.

Table A – 30 Adjust Smoke.

TYPE OF COMPUTATION		DIGITAL		VOICE/ MANUAL COMPS		M109A6 PALADIN AFCS			
		HE/Q	SMK/ TI	HE/Q	SMK/ TI	HE/Q	SMK/ TI		
OBSERVER		INITIAL ROUND		:55		:45		:55	
		EACH SUBSEQUENT CORRECTION (note 1)			(:10)		(:10)		(:10)
		FFE CORRECTION			:10		:10		:10
		<i>TOTAL OBSERVER TIME</i>		1:05 +		:55 +		1:05 +	
BATTALION FDC		<i>TACTICAL FIRE DIRECTION</i>		:35		:35		:35	
PLATOON/ BATTERY FDC		<i>TACTICAL FIRE DIRECTION</i>		3:00		3:00		3:00	
		INITIAL ROUND TECHNICAL FIRE DIRECTION		:20		:40		:20	
		EACH SUBSEQUENT CORRECTION TECHNICAL FIRE DIRECTION (note 2)			(:20)	(:30)			
		FFE TECHNICAL FIRE DIRECTION (R1) (note 3)			:40		1:20		:40
60		<i>FDC TOTAL TIME</i>		4:00 +		5:00 +		4:00 +	
GUNS		EACH ROUND		105-mm	:30	:45	:30	:45	
		155-mm (SP)		:45	1:00	:45	1:00	:30	:45
		155-mm (T)		1:00	1:15	1:00	1:15		
		<i>TOTAL GUN TIME (note 4)</i>		105-mm	1:15 +		1:15 +		
		155-mm (SP)		1:45 +		1:45 +		1:15 +	
		155-mm (T)		2:15 +		2:15 +			
<i>TOTAL MISSION TIME (note 5)</i>		105-mm		6:55 +		7:45 +			
		155-mm (SP)		7:25 +		8:15 +		6:55 +	
		155-mm (T)		7:55 +		8:45 +			

* This mission denotes only the times for the first round fired. Times for subsequent volleys fired must be added to the total time (see notes).

NOTES:

- (1) Multiply the number of subsequent adjustments by the value shown & add to the total observer time = new total observer time (if evaluating observers).
- (2) Multiply the number of subsequent adjustments by the value shown & add to the FDC total time = new FDC total time.
- (3) R1 and R2 fired at appropriate intervals determined by the Munitions Expenditure Tables.
- (4) Multiply the number of subsequent rounds by the "each round" time shown & add to the total gun time = new total gun time.
- (5) Total mission time = New Platoon/Battery FDC total time + new total gun time.

APPENDIX B - ARTILLERY TABLES

B-1. General: Commanders determine how to train their units, and the manner chosen becomes the commander's training strategy. The artillery tables (AT) provide a list of tasks commanders may use to help develop their training strategy. The tables provide the structure for a progressive and sequential gunnery training strategy using dry-fire certification before live-fire qualification. These tables are aligned with the strategies outlined in DA Pam 350-38, Standards in Training Commission (STRAC). The tables do not lay out a strategy for training all tasks and areas required for the unit to obtain a rating of "Trained" on an ARTEP evaluation. Rather, the tables outline a plan for training the signature mission of the unit. Many unit elements (for example, mess, maintenance, and administrative services) require less intense training because they perform many of their ARTEP tasks on a daily basis. In addition, the tables are focused on the technical rather than the tactical aspects of unit collective training. Some tasks listed in the tables have both technical and tactical components; however, the primary goal of the tables is to outline a method of training the unit "gunnery" team to an acceptable level of technical proficiency. With this criterion in mind, no tactical tasks (for example, NBC, special teams, and so forth) are included in the tables.

B-2. Features:

a. The ATs contain ARTEP MTP firing collective tasks.

(1) Chapter 5 is the source for all tasks, conditions, and standards for AT tasks. Section, Platoon, and Battery tasks are found in ARTEP 6-037-30-MTP. Battalion tasks are found in ARTEP 6-115- MTP.

(2) T&EOs are also identified in Chapter 5.

(3) This appendix lists FA tasks associated with each table.

(4) Certain tasks may be performed at different levels; crew/section, platoon and or battery. A task trained/certified at the crew/section level will certify the proficiency of that crew/section. That same task trained/certified/qualified at the platoon and or /battery level will qualify that crew/section's interaction and performance within the platoon and or battery.

b. The ATs provide a list of collective tasks that represents the **minimum** training requirements required of a specific element at a specific echelon.

c. The ATs provide a descriptive training strategy, which in conjunction with combined arms training strategies will provide commanders a starting point to maintain proficiency in the unit's primary mission of delivering fires. As always, the commander must decide how to best use his scarce resources to accomplish training goals.

(1) Commanders may modify the tables to meet METL and MACOM-unique training requirements.

(2) The Reserve Component units have unique constraints in their training environment such as wide dispersion of units and their equipment, conflicting schedules, limited access to impact areas and training land, and limited training days. They may have to combine ATs during training assemblies and annual training.

d. DA Pam 350-38 (STRAC) specifies the ammunition requirements.

B-3. Description:

a. Structure. The artillery tables provide the structure for progressive and sequential training for crew-, platoon-, battery-, and battalion. They identify the tasks for dry-fire training and certification and live-fire qualification. Units should train by using TADSS, when available, for dry-fire training and certification. The artillery tables are as follows: The ATs are divided into three phases for each echelon. They are training, certification, and qualification. The tables start at table 6. This was done to bring the numbering in coincidence with the maneuver tables. There is no table 9 for the same reason.

- 6--Crew/Section training (dry fire).
- 7--Crew/Section certification (dry fire).
- 8--Crew Qualification (live fire)
- 10--Platoon training (dry fire).
- 11--Platoon certification (dry fire).
- 12--Platoon qualification (live fire).
- 13--Battery training (dry fire)
- 14--Battery certification (dry fire).
- 15--Battery qualification (live fire).
- 16--Battalion training (dry fire).
- 17--Battalion certification (dry fire).
- 18--Battalion qualification (live fire).

(1) **Training** artillery tables:

(a) Training ATs prepare crews, platoons, batteries, and battalions for certification. The emphasis is on leader training and performing the tasks safely to standard without using ammunition.

(b) Units train by using these ATs with dry-fire procedures. The training ATs are AT 6, (crew), AT 10 (platoon), AT 13 (battery), and AT 16 (battalion).

(c) These tables are used with TADSS, when available. They require little training land and OPTEMPO and no ammunition.

(2) **Certification** artillery tables:

(a) Certification ATs prepare crews, platoons, batteries, and battalions for qualification. Their purpose is to certify that the echelon can perform the tasks safely to standard before live-fire qualification.

(b) Units train by using these ATs with dry-fire procedures. The certification ATs are AT 7 (crew), AT 11 (platoon), AT 14 (battery), and AT 17 (battalion).

(c) Certification ATs are used with TADSS, when available.

(3) **Qualification** artillery tables:

(a) Qualification ATs allow the platoon, battery, or battalion commander to evaluate the dry-fire training. The echelon's ability to perform the tasks safely and to standard is evaluated.

(b) Units train by using these tables with live-fire procedures. The qualification ATs are AT 8 (crew), AT 12 (platoon), AT 15 (battery), and AT 18 (battalion).

(c) The qualification ATs require extensive use of training land, OPTEMPO, and ammunition.

b. Critical gates: Critical gates are tasks or events that soldiers and units must perform to standard before they progress to subsequent tasks or events. ATs 7, 11, 14, and 17 are critical gates.

(1) AT 7 (crew certification) is the crew's critical gate preceding live fire or on to the platoon, battery, or battalion certification. Crews, for the purpose of ATs, are the FDC section and howitzer section.

(a) The standard for certification is to accomplish AT 8 tasks to MTP standards. Army regulation 220-1 details the requirements for section certification for reporting purposes. The AR states that a section will certify twice annually in a live fire manner. It also states that the section may certify as a part of a higher level exercise. In other words, a section does not need to live fire in isolation. They may certify during a platoon, battery, or even a battalion level training event and meet the requirements of certification per AR 220-1. The section tables 6, 7, and 8 list the tasks that sections must perform in order to become "certified" IAW AR 220-1. (See chapter 1 for task assessment standards)

(b) Crews must successfully complete AT 7 before participating in live-fire exercises.

(c) An echelon (such as a platoon or a battery) must have a part of its crews certified before proceeding to the platoon or battery certification. The standards are as follows:

- Gun section: two of three.
- Cannon Platoon: two of two per battery.
- MLRS Launcher section: two of three per platoon.
- MLRS Platoon: two of two per battery
- FDC section: cannon/MLRS platoon, one of one; cannon battery/MLRS, one of one.
- FIST: cannon battalion, 10 of 12, or 80 percent of assigned, before AT 12 if ACR or table 18 if a DS battalion.

(d) Each section has critical personnel who must be present during the certification. Commanders can designate additional personnel as critical. If new critical people are assigned to the section, the section should be retrained (AT 6) and recertified (AT 7) before proceeding to ATs 8, 12, 15, and 18. The minimum critical personnel are as follows:

- Cannon gun/MLRS firing section: section chief and gunner.
- FDC section: FDO/Battery Operations Officer and Chief Computer
- Fire Support Team/Colt/Striker section: Team/Section Chief and Fire Support Officer

(e) The weapon system TM establishes minimum crew size. Commanders can use this guidance in conjunction with critical personnel changes to determine if a crew can perform expected tasks and maintain its certification.

(2) AT 11 (platoon certification) is the platoon's critical gate to proceed to the platoon qualification (AT 8) or the battery certification (AT 14).

(a) The standard for certification is to accomplish AT 11 tasks to MTP standards using dry Fire techniques. (See chapter 1 for task evaluation)

(b) A platoon must be certified before participating in live-fire exercises.

(c) A platoon has critical leaders, in addition to the section's critical positions, who must be present during the certification. Commanders may designate which leaders are critical. These same critical leaders must be present during the battery certification (AT 14) for the platoon to maintain its

certification. The critical leader positions are the platoon leader and platoon sergeant. Commanders can designate additional positions as critical.

(3) AT 14 (battery certification) is the battery's critical gate to proceed to the battery qualification (AT 15) or battalion certification (AT 17).

(a) The standard for certification is to accomplish AT 14 (dry-fire) tasks to MTP standards. (See chapter 1 for task evaluation)

(b) A battery must be certified before participating in live-fire exercises.

(c) A battery has critical leaders who must be present during the certification. Commanders may designate which leaders are critical. These same critical leaders must be present during the battalion certification (AT 17) for the battery to maintain its certification. The critical leaders are as follows:

(4) AT 17 (battalion certification) is the battalion's critical gate to proceed to the battalion qualification (AT 18).

(a) The standard for certification is to accomplish AT 17 (dry-fire) tasks to MTP standards.

(b) A battalion must be certified before participating in a live-fire exercise.

B-4. Standards in Training Commission (STRAC). DA Pam 350-38 provides a table (Annual Ammunition Requirements) for each FA weapon system and organization.. These tables will list all the fire missions and associated ammunition. A brief description of the new tables is below. Using STRAC strategies:

a. Two tables are used to determine ammunition requirements and specify the training strategy for each type of unit. Each of these tables provides different information and they should be used in conjunction with each other. For example tables 3-6, 3-7, apply to 155 Direct Support battalions (TRC A). The tables are:

(1) Annual Requirements to Train Fire Tasks identified in MTP (e.g. Tables 3-7). This table identifies every ARTEP MTP fire mission that applies to a specific 155mm battalion. Further it identifies the echelon (platoon, battery, battalion) that should train each fire mission in consonance with the unit METL. Resources for CALFEXs are in table 3-7.

(2) Ammunition Requirements for type-weapon system and unit (e.g. table 3-7). The Xs on the matrix identify the missions STRAC resources. Trainers must understand that not all fire missions are resourced and that STRAC and Artillery Tables are descriptive training strategies. Commanders must use their judgment, METL, and training assessment to develop training plans that will meet their needs and satisfy their training requirements.

(3) Descriptive Training Strategy. e.g. Table 3-7. This table provides a suggested frequency to train each event (Artillery Table, CALFEX, and EXEVAL) that requires ammunition. Further it identifies the ammunition required to train each event. This table specifies the total STRAC annual ammunition authorization for 155 Direct Support battalions (TRC A). Similar tables are provided in this chapter for every other cannon and MLRS unit.

c. Close Support (CS) tasks are included in 105 mm Howitzer battalion tables. These satisfy the mission to provide close-in fires in support of light infantry units.

B-5. Multiechelon Training.

a. Multiechelon training is the simultaneous training of more than one echelon on different tasks, the conduct of different exercises by a unit, or the training of different tasks by elements of the unit. Multiechelon training occurs whenever collective training is being conducted. Anytime training above soldier level is going on, multiechelon training is being done.

b. The ATs, by their collective nature, are multiechelon training. Training, certification, and qualification ATs are designed to help train or evaluate training at crew platoon battery, and battalion levels. All ATs sustain individual MOS proficiency. While certifying or qualifying at platoon through battalion levels, training for crews continues, since ATs are multiechelon training.

B-6. TADSS-Based Training Strategy: TADSS-based training uses a mixture of TADSS and end items. The mixture is based on need and availability of TADSS and training resources. Availability of TADSS gives commanders training alternatives.

B-7. Individual and Leader Training: The ATs do not address individual or leader training. The Common Task Training (CTT), MOS training, and leader training must precede crew training (AT 6).

a. Soldier's Manuals/Trainer's guides (SMs/TGs) identify combat-critical MOS training requirements. They already exist for every MOS and skill level. They provide the MOS training plan and references for training individual soldier skills.

b. The SMs and TGs support the Army individual training and evaluation program (ITEP). The ITEP has two components:

- Commander's evaluation.
- Common task test.

B-8. Certification and Qualification Scenarios. Leaders at the platoon, battery, and battalion levels must develop a METL-based scenario when using the certification and qualification ATs. This scenario will help to make the certification and qualification ATs more meaningful, thus making the training more beneficial. The use of Combined Arms Training Strategies will help commander in this effort. CATS are more fully explained in the MTP chapter 3.

B - 9. Artillery Tables. Trainers use the following ATs with this MTP.

**SECTION TABLES
6,7, & 8**

TASK
NUMBER

TASK TITLE

Battery and Platoon Fire Direction Center

06-2-A000	Establish And Maintain Communications (Cannon)
06-2-W109	Establish And Maintain A Battery/Platoon Operations And Fire Direction Center

All Howitzer Sections

06-4-C003	Conduct Fire Missions (Non Paladin)
06-4-C004	Manage And Submit Howitzer Section Reports

06-4-C008 Store Ammunition (Howitzer Section)
06-4-C009 Unload The Howitzer
06-4-C015 Conduct Direct Fire
06-4-C012 Prepare Howitzer For Conduct Of Fire Missions (Non Paladin)

Paladin Howitzer Section

06-2-A000 Establish And Maintain Communications
06-2-G010 Perform Reconnaissance Operations (Paladin Units)
06-3-G004 Establish Firing Capability At Firing Position
06-4-G009 Process Fire Missions With The M109a6 Paladin Howitzer

**PLATOON TABLES
10, 11, & 12**

Platoon Fire Direction Center/(POC)

06-3-C002 Conduct Emergency Missions
06-1-W108 Control And Coordinate Fire Plans
06-4-C002 Determine Firing Data
06-1-W103 Command And Control Delivery Of Fires

BATTERY TABLES
13, 14, & 15

TASK NUMBER

TASK TITLE

Battery Fire Direction Center/BOC

06-1-W103 Command And Control Delivery Of Fires
06-1-W108 Control And Coordinate Fire Plans
06-4-C002 Determine Firing Data

FIST

(ACR units have FIST at this level;
all other units will see FIST at Battalion level)

06-5-A047 Establish Fire Support Operations
06-1-A050 Coordinate, Direct, And Adjust Other Fire Support Assets
06-2-A000 Establish And Maintain Communications (Cannon)
06-5-A008 Conduct Fire Missions

BATTALION TABLES
16, 17, & 18

Operations section

06-1-W102 Maintain Continuity Of Operations
06-1-W105 Establish And Maintain The Field Artillery Tactical Operations Center
06-2-A000 Establish And Maintain Communications (Cannon)

Intell Section

06-1-W102 Maintain Continuity Of Operations
06-1-W105 Establish And Maintain The Field Artillery Tactical Operations Center
06-2-A000 Establish And Maintain Communications (Cannon)

Battalion FDC

06-2-A000 Establish And Maintain Communications (Cannon)
06-1-W105 Establish And Maintain The Field Artillery Tactical Operations Center
06-1-W104 Execute Battalion Fire Missions
06-1-W103 Command And Control Delivery Of Fires
06-1-W108 Control And Coordinate Fire Plans
06-1-W102 Maintain Continuity Of Operations
06-1-W100 Control Counterfire Operations

FIST

06-5-A047 Establish Fire Support Operations
06-1-A050 Coordinate, Direct, And Adjust Other Fire Support Assets
06-2-A000 Establish And Maintain Communications (Cannon)
06-5-A008 Conduct Fire Missions

APPENDIX C - OPFOR TASKS

C-1. The OPFOR tasks in this appendix are designed for use by trainers to create a tactical situation that may replicate combat conditions and environments as much as possible. The trainers must use their imagination and ingenuity to provide the evaluated unit a realistic and comprehensive training experience. Use of OPFOR play in a training event will add to the realism and offer a more rewarding training experience to the unit. This will produce better-trained units.

C-2. The tasks listed here do not represent the entire set of simulations or activities an OC or trainer may use to create the desired training environment. Trainers must use ingenuity and use their creative abilities to help the training unit become a well prepared combat ready unit.

C-3. The execution of these tasks must create confusion and stimulate reactions on the part of the tested/training unit. Many tasks require the use of pyrotechnics and blank ammunition. **Explosive devices can injure and kill.** The utmost care must be used when employing these devices. **Blank ammunition may blind or do other permanent damage to a person.** The OIC/NCOIC of the OPFOR detail must ensure safety briefings are given and that all OPFOR players understand the required safety procedures and policies for specific types of devices and blanks.

ELEMENT:

TASK: Disrupt Movement and Operations Using Persistent and Nonpersistent Chemical Weapons (06-5-OP01)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: OPFOR units deliver chemical agents by means of conventional artillery weapons, rockets, or aircraft along selected supply routes and key bases in the rear area. This task is always performed in MOPP4.

TASK STANDARDS: The OPFOR uses real and simulated chemical agents to disrupt movement and operations of specific elements. The reaction of the personnel and leaders are observed, recorded, and reported.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. Delivers chemical agents in low and/or dense wooded areas.		
2. Delays movement of enemy supplies and equipment to forward areas.		
3. Restricts enemy movement in rear area.		
4. Channels movement into predesignated ambush areas.		
5. Contaminates enemy supplies and equipment.		
6. Inflicts a high rate of casualties on enemy forces.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

OPFOR TASKS AND STANDARDS

NONE:

ELEMENT:

TASK: DISRUPT ENEMY MOVEMENT AND OPERATIONS USING TACTICAL NUCLEAR WEAPONS (06-5-OP02)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: Tactical nuclear weapons are employed against key locations in the rear area. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The OPFOR will employ simulated tactical nuclear weapon use in a specific area so as to provide a stimulus for the evaluated unit to react. The OPFOR will record and report any observed reactions.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. Disrupts and/or delays movement of equipment and supplies to forward areas. 2. Destroys enemy equipment and supplies. 3. Inflicts a high rate of nuclear casualties among enemy troops. 4. Denies the enemy use of specified areas. 5. Contaminates enemy equipment and supplies. NOTE: Use with task: Advise the FA Commander on NBC Defense Measures.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

OPFOR TASKS AND STANDARDS

NONE:

ELEMENT:

TASK: CONDUCT HASTY AMBUSH (06-5-OP03)

ITERATION: 1M 2M 3M 4M 5M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: OPFOR element is moving into a wooded area when an enemy march element is seen moving along a nearby route. This task is always performed in MOPP4.

TASK STANDARDS: The OPFOR prepares an ambush site and uses various types of pyrotechnics to simulate conditions of actual combat. They will disrupt the enemy and try to confuse him. They will record and report the reaction and actions taken by the enemy.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. Prepares ambush site before arrival of enemy element. 2. Surprises enemy forces. 3. Inflicts heavy casualties within designated kill zone. 4. Inflicts heavy damage to vehicles and equipment within a designated kill zone. 5. Delays enemy march element from reaching the specified destination for a specified period. 6. Withdraws, on order, within 2 minutes of ambush initiation. 7. Sustains no casualties. 8. Reports actions to superiors.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1M	2M	3M	4M	5M		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

OPFOR TASKS AND STANDARDS

NONE:

ELEMENT:

TASK: CONDUCT DELIBERATE AMBUSH (06-5-OP04)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: OPFOR element is operating along an enemy MSR. OPFOR intelligence reports an enemy element is conducting a road march along route. Enemy march element is approximately 15 minutes from arrival at ambush point. OPFOR element possesses automatic weapons, antiarmor weapons, and command detonated mines. OPFOR headquarters orders complete destruction of march element. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The OPFOR conducts the ambush by using pyrotechnics and simulated road blocks or some other type obstacle if the ambush is a blocked type ambush. They report the actions and reactions of the enemy forces.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. Prepares ambush site before arrival of enemy element.		
2. Surprises enemy forces.		
3. Forces enemy march element to halt in kill zone.		
4. Initiates ambush, on order, by the OPFOR leader.		
5. Kills, wounds, or captures all enemy personnel, and destroys all specified vehicles and equipment in the kill zone.		
6. Engages all enemy reinforcements and security elements.		
7. Sustains no casualties from enemy forces.		
8. Consolidates and withdraws from area, on order.		
9. Reports all specified PIR and other intelligence requirements.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

OPFOR TASKS AND STANDARDS

NONE:

ELEMENT:

TASK: CONDUCT SNIPER OPERATIONS (06-5-OP05)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: OPFOR assigns snipers, regular or irregular elements, in the enemy rear area along the MSR and near support sites. This task should not be trained in MOPP4.

TASK STANDARDS: The OPFOR establishes sniper positions as needed. MILES systems will be used to simulate hits.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. Sets up well concealed locations. 2. Engages vehicle drivers or personnel on foot with short bursts of semiautomatic fire. 3. Kills or wounds selected target. 4. Prevents position from being discovered by enemy forces. 5. Evacuates the area without being spotted. 6. Reports all specified PIR and other intelligence requirements to OPFOR headquarters.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

OPFOR TASKS AND STANDARDS

NONE:

ELEMENT:

TASK: CONDUCT AIR RECONNAISSANCE (06-5-OP07)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: OPFOR headquarters requires intelligence on locations and identification of enemy elements. Aircraft is dispatched to take photographs and make visual inspection of enemy rear area. This task should not be trained in MOPP4.

TASK STANDARDS: The OPFOR uses available air platforms to recon the enemy area of operations.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. Photographs assigned sectors. 2. Takes quick visual checks where cloud ceiling is low. 3. Locates enemy positions in rear area, particularly support and storage bases, and command and control facilities. 4. Sustains no loss of aircraft. 5. Reports PIR and other information requirements to OPFOR headquarters. Use with tasks that monitor operations security (OPSEC) Measures, establish OPSEC data base, and implement OPSEC activities and programs.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

OPFOR TASKS AND STANDARDS

NONE:

ELEMENT:

TASK: GATHER INTELLIGENCE (06-5-OP08)

ITERATION: 1 2 3 4 5 (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: OPFOR small elements, operating in the rear area, are planning attacks on enemy bases. Information is needed to complete plans. This task should not be trained in MOPP4.

TASK STANDARDS: The OPFOR uses all available means to gather intelligence information.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. Identifies all PIR and other intelligence requirements. 2. Passes undetected through any outpost, defensive wire, or warning device. 3. Moves to an observation point that offers cover and concealment and is close enough to gather PIR and other intelligence requirements. 4. Gathers all PIR and other intelligence requirements. 5. Withdraws from the area undetected. 6. Reports all information to OPFOR headquarters. Use with tasks that monitor OPSEC measures; and implement OPSEC activities and programs.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5		TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

OPFOR TASKS AND STANDARDS

NONE:

ELEMENT:

TASK: CONDUCT RAID (06-5-OP09)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: OPFOR element occupies an objective rally point and has orders to conduct a raid on a support base. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The OPFOR uses various pyrotechnic devices and simulators to replicate combat conditions and create a confusing state of operations for the enemy.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. Surprises enemy forces.		
2. Assaults support base and accomplish assigned tasks.		
3. Destroys specified equipment and supplies.		
4. Avoids being decisively engaged.		
5. Withdraws all personnel from support area within the time prescribed.		
6. Obtains all PIR from raid site.		
7. Sustains only light casualties from enemy fire.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"**" indicates a leader task step.

OPFOR TASKS AND STANDARDS

NONE:

ELEMENT:

TASK: ATTACK A REAR AREA SUPPORT BASE (06-5-OP10)

ITERATION: 1 2 3 4 5 M (Circle)

COMMANDER/LEADER ASSESSMENT: T P U (Circle)

CONDITIONS: OPFOR element locates a support base in the rear area. PIR and other intelligence requirements are obtained by OPFOR patrols. OPFOR element has automatic and anti-armor weapons, and light mortars. OPFOR element is approximately the size of two platoons. Some iterations of this task should be performed in MOPP4.

TASK STANDARDS: The OPFOR locates a support base in the enemy rear area. It conducts a deliberate attack on the base.

TASK STEPS AND PERFORMANCE MEASURES	GO	NO-GO
1. Develops an attack plan. 2. Initiates attack by using a scheme of maneuver that exploits enemy flanks, gaps, and weaknesses 3. Uses covered and concealed routes to approach enemy force flanks, gaps, or weakly held areas. 4. Employs indirect fire to support attack. 5. Penetrates enemy defenses. 6. Destroys equipment and supplies. 7. Inflicts heavy casualties. 8. Isolates support base by blocking reinforcements. 9. Forces enemy units to displace. w30 10. Withdraws before support base is reinforced.		

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL TASK STEPS EVALUATED							
TOTAL TASK STEPS "GO"							
TRAINING STATUS "GO"/"NO-GO"							

"*" indicates a leader task step.

OPFOR TASKS AND STANDARDS

NONE:

GLOSSARY**Section I**
Abbreviations

RTO	Radio Telephone Operator
1LT	First Lieutenant
1SG	First Sergeant
1SGA	First Sergeants Academy
A&T	Assembly and Transport; ammunition and transport
A/D	Analog to Digital
A/SPOE	Air/Ship Point of Embarkation
AA	Antiaircraft; assembly area
AAG	Army Artillery Group (Soviet)
AAGS	Army air-ground system
AAP	Army Apprenticeship Program
AAR	After-Action Review
ABC	Atomic Biological Chemical; American, British and Canadian
ABCS	Army Battle Command System
abn	airborne
AC	Active Component; Assistant Commandant; aiming circle; alternating current
ACA	Airspace Coordination Area
ACAA	Automatic Chemical Agent Alarm
ACAT	Acquisition Category
ACC	Army Correspondence Course; air combat command; artillery control console
ACCO	artillery control console operator
ACCP	The Army Correspondence Course Program
ACE	analysis and control element; American Council on Education

ACES	Army Continuing Education System
acft	aircraft
ACIF	Artillery Counterfire Information Form
ack	Acknowledge
ACOR	Assistant Contracting Officer's Representative
ACP	Allied Communication Publication
ACRV	Armored Command and Reconnaissance Vehicle
ACS	Army Community Service
ACTEDS	Army Civilian Training Education and Development System
AD	artillery datum plane (Firefinder mission type)
ADA	Air Defense Artillery
ADAM	Area Denial Artillery Munitions
ADFT	artillery direct fire trainer
adj	adjust; adjutant; adjacent
ADJEL	indicates adjusted elevation in mils--one to four numeric characters
ADJTI	indicates adjusted time, in seconds, if time registration was conducted
ADL	Army Doctrine Literature
admin	administrative
ADP	Automated Data Processing
ADT	Active Duty for Training
ADTL	Armywide Doctrinal and Training Literature
ADTLP	Armywide Doctrinal and Training Literature Program
ADU	Antenna Data Unit
adv	advance
AE	allowable error
AER	Army Emergency Relief
AF	Adjust Fire; audio frequency
AFARS	Army Federal Acquisition Regulation Supplement

AFATDS	advanced field artillery tactical data system
AFC	automatic frequency control
AFCS	Active Federal Commissioned Service; automatic fire control system
AFSCOORD	assistant fire support coordinator
AFSLC	Automated Fire Support Leaders Course
AFSO	aerial fire support observer
AFST	aerial fire support team
AFU	ammunition and fire unit
AFU;AMMOST	Ammunition and Fire Unit Ammunition Status Message (Battalion Only)
AFU;AMSS	Ammunition and Fire Unit Ammunition Storage Site
AFU;FUST	Ammunition and Fire Unit Fire Unit Status Message
AFU;LAUNCH	Ammunition and Fire Unit Firing Point Update
AFU;POSTUR	Ammunition and Fire Unit Posture Guidance
AFU;SR	Ammunition and Fire Unit Situation Report
AFU;UPDATE	Ammunition and Fire Unit Status Update (Battalion Only)
AG	Adjutant General Corps; assistant gunner
AGCY	Indicates Name of the Originating Agency
AGPP	Armywide GTA Prioritization Program
AHA	Ammunition Holding Area
AHD; ahd	Anti-Handling Device; airhead
AI	Area of Interest
AIC	ammunition identification code
AIMS	Automated Instructional Management System
AIMS-R	Automated Instructional Management System-Revised
AIO	artillery intelligence officer
AIT	advanced individual training
AJDEF	indicates adjusted deflection in mils--one to four numeric characters
AK	automatic remote keying

ALB	AirLand Battle
ALM	Alarm
ALO	air liaison officer
ALOC	Administration/Logistics Operations Center
alt	alternate; altitude
ALT NCS	Alternate Net Control Station
AM	amplitude modulation
AMAT	Antimateriel
AMC	Army Materiel Command; at my command; Air Mobility Command
AMCCOM	Armament Munitions Chemical Command
AME	air mobility element
ammo	ammunition
AMOH	indicates the report being sent is the ammunition on hand report
AMOR	indicates the report being sent is an ammunition receive report
amp	ampere; amplifier
amt	amount
AMTAS	Army Modernization Training Automation System
AMTP	ARTEP Mission Training Plan
ANCOC	Advanced Noncommissioned Officer Course
anemometer	the general name for instruments designed to measure the speed (or force) of the wind
ANGLE	indicates the angle of fire to be used in this mission--low or high
ANGLE T	indicates ANGLE T in hundreds of mils if angle T is equal to or greater than 500 mils
ant	antenna (LED display)
AO	area of operations; aerial observer
AOAP	Army Oil Analysis Program
AOC	Area of Concentration
AOF	area of fire

AOL	azimuth of lay
AOR	area of responsibility
AOSP	Army Occupational Survey Program (See ODARS)
AP	antipersonnel; armor-piercing
APC	armored personnel carrier
APDS	armor-piercing discarding sabot
APERS	antipersonnel
APFSDS	armor-piercing, fin-stabilized, discarding sabot
APFT	Army Physical Fitness Test
API	armor-piercing incendiary
APICM	antipersonnel improved conventional munitions
APOD	Airport of Embarkation
app	appendix
approx	approximately
APPS	Analytical Photogrammetric Positioning System
APU	auxiliary power unit
AR	Army Regulation; Army Reserve; accuracy ratio
ARC	American Red Cross
ARCOM	Army Reserve Command
ARI	Army Research Institute
armd	armored
ARNG	Army National Guard
ARP	Acquisition Requirements Package
ARPERCEN	Army Reserve Personnel Center
ARPRINT	Army Program for Individual Training
ARSPACE	Army Space Command
ARSS	automated range safety system
ARTEP	Army Training and Evaluation Program

ARTEP-MTP	Army Training and Evaluation Program Mission Training Plan
Arty	Artillery
ARV	ammunition resupply vehicle
ASAT	Automated Systems Approach to Training
ASCC	Air Standardization Coordination Committee
ASCE	air support coordination element
ASCII	American Standard Code for Information Interchange
ASI	additional skill identifier
ASL	authorized stockage list
ASOC	air support operations center
ASP	Ammunition Supply Point
ASR	available supply rate
assy	assembly
ASVAB	Armed Services Vocational Aptitude Battery
AT	antitank; artillery table; active duty for training
ATACMS	Army tactical missile system
ATC	Army Training Center
atch	attach; attachment
ATGM	antitank guided missile
ATI	artillery target intelligence
ATI;SHR	artillery target intelligence shell report
atk	attack
ATL	army training literature; annotated task list (for MOS)
ATMCT	Air Terminal Movement Control Teams
ATMS	atmospheric pressure at met station
ATOM	atomic
ATP	ammunition transfer point
ATRM-2	Army Training Management Resourcing

ATRRS	Army Training Requirements and Resource System
ATSC	Army Training Support Command
AU	authenticator
AUD	audio
AUEL	Automated Unit Equipment List
AUF	indicates adjusting unit to fire--battery computer system fire unit name
AUT	automatic (LED display)
AUTH	option for the automatic authentication of messages; will be entered automatically
AUTO	automatic
AV	audiovisual
AVC	automatic volume control
AVG	average
AVMRL	armored vehicle - mounted rocket launcher
AVPRO	audiovisual production officer
AWOL	absent without leave
AWS	Air Weather Service
AXO	assistant executive officer
az	azimuth (LED display)
az mk	azimuth mark
BA	battery adjust (mnemonic)
bal	ballistic; balance
BAMOUP	Message Type--Fire Unit Ammunition Update
BAO	battalion ammunition officer
BAS	battalion aid station
Battle Drill	See "Drill."
BC	battery commander
BCD	bad conduct discharge
BCE	battlefield coordination element

BCS	battery computer system
BCT	basic combat training
BCU	battery computer unit
BD	base detonating (fuze)
BDA	battle damage assessment
BDAR	battle damage assessment and repair
bde	brigade
BDU	battle dress uniform; battery display unit
BE	base ejection (fuze)
BII	basic issue items
BIO	biological
BKUP	automatic backup transmission indicator
BL	low battery
BLT	basic leadership training
BLTM	battalion level training model
BLU	blue (LED display)
BMG	budget manpower guidance
BN	battalion
BNC	back-in connector
BNCOC	basic noncommissioned officer course
BOC	battery operations center
BOI	basis of issue
BOIP	basis of issue plan
BOM	bill of materials
BOS	battlefield operating systems
BPLOC	indicates the location of the base piece over the battery center
BRP	boresight reference point
BSA	brigade support area

BSEP	basic skills education program
BSU	beam steering unit
BT	basic training
btry	battery (mnemonic)
BUCS	backup computer system
C	celsius; centigrade
C/A	corps artillery (target matrix)
C/B	counterbattery (target matrix)
C2	command and control
C3	command, control, and communications
CA	combined arms; civil affairs; combat assessment
CAC	Combined Arms Center
CAI	computer assisted instruction
cal	caliber
CALBR	caliber of the enemy shell in millimeters
CALL	Center for Army Lessons Learned
CAM	chemical agent monitor
CANE	Chemical and Nuclear Environment reports
CAPR	capability requirement
CAS	close air support
CAS3	Combined Arms and Service Staff School
cat	category
CATS	Combined Arms Training Strategy
CATV	combat ammunition transport vehicle
CB	chemical, biological; common battery
CBE	command budget estimate
CBI	computer based instruction
CBR	chemical, biological, and radiological; counterbattery radar

CBRS	concept based requirements system
cbt; CBT	combat; computer based training
CC	Chemical Corps; control center
CCH	close combat heavy
CCS	communications control system
CCTT	closecombat tactical trainer
CCU	communications control unit
ccw	counterclockwise
CD	compact disk
C-day	Commencet Day
CDD	collateral damage distance
CDM	chemical downwind message
CDPU	communications data processing unit
CDR	commander
CDRL	Contract Data Requirements List
CD-ROM	compact disk-read only memory
CDS	command disable systsem
CDU	control and display unit (PADS)
CE	commander's evaluation
C-E	communications-electronics
CECOM	Communications-Electronics Command
CED	compose/edit display; captured enemy documents
CEE	Captured Enemy Equipment
CEM	Captured Enemy Material
sensor zone	a defined region where weapons locations are not to be reported
central processing unit (CPU)	the circuits in the computer that perform data processing
CEOI	Communications Electronic Operating Instructions
CEP	Circular Error Probable

Certification	Written verification of proficiency in a given task or tasks.
CESI	Communications-Electronics Standing Instructions
CEWI	Combat Electronic Warfare and Intelligence
CF	Correlation Factor
CFA	Coordinated Fire Area
CFB	Chief of Firing Battery
CFF	Call For Fire
CFL	Coordinated Fire Line
CFO	Counterfire Officer
CFP	Contingency Force Pool
CFX	Command Field Exercise
CFZ	Critical Friendly Zone
CG	Commanding General
CGA	Color Graphics Adapter
cGy	Centigray
cGyph	Centigray per hour
CH	Chaplains
CH1	Channel 1
CH2	Channel 2
Chap	Chapter
Checksum	a sum of data stored in the computer that is used to check if the data remain stored correctly
CHEMWARN	Chemical Warning
CHG	Charge
CHGS	Displays the charges to be used in the fire-for-effect phase for the first and second volleys
CHKF	Checkfire
CI	Counterintelligence
CICA	Competition in Contracting Act

CID	Criminal Investigation Division
CIDC	US Army Criminal Investigation Command
CINC	Commander In Chief
Cir	Circular
CIRC	Identifies grid coordinates and radius of a circular fire coordination area (restrictive fire area)
CK	Cyanogen Chloride, a Choking Agent.
CL	Communications Line
Class frequency	The number of times a class is conducted during a fiscal year.
Claymore	M18A1 antipersonnel mine
CLDHT	Cloud Height
CLEP	College Level Examination Program
CLOTHE	Personnel clothing and mask indicator code
CLP	Cleaner Lubricant Preservative
CLR/TEST	Clear/Test
cm	centimeter
CMD	Command
CMF	Career management field
CMI	Computer Managed Instruction; Classified Military Information
CMP	Course Management Plan
CMSC	Communications Mode Selector Control
CMT	Company Maintenance Team
CN	Chemical Corps
CNV	Crypto Net Variable
CO	Commissioned Officer
CO2	carbon dioxide.
COA	Course of Action
COB	Command Operating Budget

CODAP	Comprehensive Occupational Data Analysis Program
COEA	Cost and Operational Effectiveness Analysis
CofC	Council of Colonels
COIN	Counterinsurgency
Collective task	See "Task."
COLT	Combat Observation/Lasing Team
COMD;CC	command cancel check firing
COMD;CF	command check firing
COMINT	Communications Intelligence
comm	communication
COMNET	communications net
comp site	complementary angle of site
COMSEC	Communications Security
COMSPOT	Communications Spot
CONAUTH	controlling authority
Concealment	The protection from observation or surveillance.
CONF	entry indicates whether a target is confirmed
CONOPS	continuity of operations
cont	continued
CONUS	Continental U.S.
CONUSA	the numbered armies in the continental United States
COR	Contracting Officer's Representative
CORD	displays target easting, northing, and altitude in meters; indicates location of the burst for the rounds; indicates observer's location in easting, northing, and altitude; displays the grid coordinates of the battery center; displays registration points; entry required to define coordinates of point on which to fire; indicates known point easting, northing, and altitude in meters
CORD 1/CORD 2/CORD 3	point coordinates
corr	correct
COSCOM	Course Support Command

COT	center of target
COTR	Contracting Officer's Technical Representative
CP	Command Post; check point
CP2D	citrate, phosphate, dextrose (50 g/L) anticoagulant
CPC	cartridge/printer controller
CPD	citrate phosphate dextrose
CPDA-1	citrate, phosphate, dextrose, adenine anticoagulant
Cphd	Copperhead
CPP	Civilian Pay Plan
CPR	cardiopulmonary resuscitation
CPS	cycles per second
CPT	Captain
CPU	central processing unit
CPX	Command Post Exercise
CR	carriage return (LED display)
CRC	Camera-Ready Copy
CRI	Criterion-Referenced Instruction
CS	O-chlorobenzyl-malononitrile
CSA	corps storage area
CSB	common sensor boundary
CSC	command and staff college
CSDP	Command Supply Discipline Program
CSF	cerebrospinal fluid
CSI	Computer Supported Instruction
CSL	chemical storage location
CSLOAD	initiates the transmission of "cease load" to the gun display unit--one numeric character
CSM	Command Sergeant Major

CSR	controlled supply rate
CSS	combat services support
CTA	Consolidated Training Activities
CTAD	corps target acquisition detachment
CTC	Combat Training Centers
CTEA	Cost and Training Effectiveness Analysis
Ctg	Cartridge
CTRL	control
CTSWG	Consolidated Training Support Work Group
CTT	Common Task Test
cu mm	cubic millimeter
CUI	Controlled unclassified information
CVC	combat vehicle crewman
cw	clockwise
CW2	Chief Warrant Officer 2
CX	Blister agent
DA	Department of the Army
DAC	digital analog controller
DACG	Departure Airfield Control Group
DAG	division artillery group (Soviet)
DAP	Decontamination Apparatus
DATE	displays the day, month, and year--maintained in the upper display area
DAVIPD	Department of the Army Audiovisual Information Producti
DAVIS	Defense Automated Visual Information System
dbm	decibels per milliwatt
DC	Dental Corps
DCD	Directorate of Combat Developments
DCSDOC	Deputy Chief of Staff for Doctrine, HQ TRADOC

DCSOPS	Deputy Chief of Staff for Operations and Plans
DCST	Deputy Chief of Staff for Training
DD	Defense Department
DDCT	datum-to-datum coordinate transformation
DDD	degrees (3 digits) (LED display)
DDL	Delegation of Disclosure Authority Letter
DDT	digital data terminal
DE	directed energy
DEA	Data Exchange Annex
decon	decontamination
DED	diesel engine driven
DEERS	Defense Enrollment Eligibility Reporting System
DEG	degree(s) (LED display)
DEH	Department of Engineering and Housing
DEL	Deployment Equipment List
DELAY	transmission delay time for Channel 1 subscribers--two numeric characters
DELETE	indicates deletion of a target--one alphabetic character
demo	demolition
des	designate
DETP	Displaced Equipment Training Plan
DFARS	Defense Federal Acquisition Regulation Supplement
DGZ	desired ground zero
DHOB	Desired height of burst
DIC	data input control
DID	Data Item Description
DIF	Difficulty, Importance, Frequency
DIR	indicates reference direction, observer target direction, and gun-target azimuth; used for target specified by shift from known point or polar

coordinates; indicates observer-target azimuth, direction, and gun-target azimuth; these data are required for adjustment

Directed training	Any training dictated by a higher headquarters. Common Core Training is directed training.
DIS	Distributed Interactive Simulation
DISCOM	division support command
DISPO	disposition of target
DIST	indicates observer-to-target distance or laser slant distance in meters; used to compute target location
Div	Division
div arty	division artillery
DL	Delay Lines
DLMP	Doctrinal Literature Master Plan
DLYD	delayed division (LED display)
DMA	Defense Mapping Agency
DMAHTC	Defense Mapping Agency Hydrographic/Topographic Center
DMD	digital message device
DMOS	Duty Military Occupational Specialty
DNA	DO NOT ADJUST command
DNBI	Diseases and Nonbattle Injuries
DNL	do not load
DNVT	digital nonsecure voice terminal
DO	Delivery Order
DoD	Department of Defense
DODAC	Department Of Defense Ammunition Code
DODD	Department of Defense Directive
DODI	Department of Defense Instruction
DODIC	Department of Defense identification code
DOES	Directorate of Evaluation and Standardization
DOL	Director of Logistics

DOP	indicates degree of target protection--four to six alphabetic characters
DOPP	Delivery Order Performance Plan
DOT	Directorate of Training
DOTD	Directorate of Training and Doctrine
DP	Dual Purpose
DPCA	Director of Personnel and Community Activities
DPICM	dual-purpose improved conventional munitions
DPM	digital plotter map
DPU	data processing unit
DR	drive right
DRAG	Doctrine Review and Approval Group
DRI	causes the data base to be recorded on the tape in the TTU
DS	direct support
DS2	decontaminating solution #2
DSA	dead-space area
DSN	Defense Switchboard Network
DSP BRT	display brightness
DSPL	display (LED display)
DSTIS	Devices and Systems Training Information System
DSU	Direct Support Unit
DT	desk-top
DTE	desk-top electrolytes
DTEA	Developmental Training Effectiveness Analysis
DTG	Date-Time Group
DTI	date-time interval
DTIC	Defense Technical Information Center
DTLOMS	Doctrine, Training, Leader Development, Organization, a
DTOCSE	division tactical operations center support element

DTSC	desk-top special chemistry
DTT	Doctrine and Tactics Training
DVIAN	Defense Visual Information Activity Number
DWHD	downwind hazard distance
DWVHD	downwind vapor hazard distance
DX	direct exchange
DY	day (LED display)
e.g.	for example
Ea	Each
EAATS	Eastern ARNG/Aviation Training Site
EAC	Echelons Above Corps
EAO	Equal Opportunity Advisor
EB	electronics box
ECA	Early Comparability Analysis
ECCM	Electronic Counter-Counter Measures
ECM	Electronic Countermeasures
ECU	electronic control unit (SIAGL)
ED	emergency destruction
EDM	effective downwind message
EDRE	emergency deployment readiness reports
EDTA	ethylenediaminetetraacetic acid
EEFI	essential elements of friendly information
EEO	equal employment opportunity
EEPROM	electrically erasable programmable read-only memory
EFC	equivalent full charge
EFF	desired effects
EFST	Essential fire support task
EGA	Extended Graphics Adapter

EIDS	Electronic Information Delivery System
EIR	equipment improvement recommendation
el	elevation
EL or ELEV	elevation (LED display)
EL SENS	elevation sensitivity (LED display)
ELINT	Electronic Intelligence
ELM	Electromagnetic
ELO	Enabling Learning Objectives
ELOS	electronic line of sight
ELP	electronic line printer
ELSEC	Electronic Security
EMI	electromagnetic pulse
EMP	Electromagnetic Pulse
EN	Corps of Engineers
eng	engine
engr	engineer
EOA	equal opportunity advisor
EOD	explosive ordnance disposal
EOL	end of orienting line
EOM	end of mission
EOR	Element of Resource
EORA	Explosive Ordnance Reconnaissance Agent
EOT	end of tape
EP	Electronic Protection
EPMS	enlisted personnel management system
EPW	Enemy Prisoner of War
EQMT	equipment (LED display)
ER	evaluation report

ERF	electronic remote fill; electronic counter-countermeasures remote fill
ESD	electrostatic discharge
ESM	Electronic Warfare Support Measure
ET	electronic time (fuze)
etc.	et cetera
ETD	electronic tactical display
ETM	Extension Training Material
ETS	expiration time of service
ETV	Estimated Time Value
EU	electronics unit
EUCOM	US European Command
EUTE	Early User Test and Evaluation
EW	Electronic Warfare
E-W	East-West
EWS	electronic warfare section
exec	execute
EXER	Exercise
EXT	external (LED display)
F	fahrenheit
FA	Functional Area; field artillery
FAA	Functional Area Assessment
FAC	forward air controller
FACBOC	Field Artillery Cannon Battery Officer Course
FAD	Finance and Accounting Document
FAMSIM	Family of Simulations
FAOAC	Field Artillery Officer Advance Course
FAOBC	Field Artillery Officer Basic Course
FAR	Federal Acquisition Regulation

FASCAM	family of scatterable mines
FASP	Field artillery support plan
FATASOC	Field Artillery Target Acquisition and Svery Office Course
FC	message type--fire command output message; message type--nonnuclear fire plan
FCA	indicates the fire coordination area that will be input, altered, or deleted by the message
FCE	fire control element
FCL	Final Coordinating Line
FCORD	agency establishing the coordination area
FCP	fire control panel
FCS	fire control system
FCTN	Function
FCU	fire control unit
FD	Firing Device
FDA	Food and Drug Administration
FDC	Fire Direction Center
FDDM	Fire Direction Data Manager
FDMD	FIST digital message device
FDO	Fire Direction Officer; Foreign Disclosure Office
FDP	fibrinogen degradation products
FDS	fire direction system
FDS;AMOSUM	fire direction system ammunition status summary
FDS;FPLAN	fire direction system fire plan command
FDS;FPSUM	fire direction system fire plan summary
FDS;FPTSUM	fire direction system firing point summary
FDTE	Force Development and Experimentation
FEA	front-end analysis
FEBA	Forward Edge of the Battle Area

FF	firefinder
FFA	free-fire area
FFE	flame field expedients
FFP	fresh frozen plasma
FH	Frequency Hopping
FI	Finance Corps
FIB	flight information block
fig	figure
FIST	Fire Support Team
FIT	Fault Isolation Test
FLOT	forward line of own troops
FLTR	filter (LED display)
FM	Field Manual; Frequency Modulation; fire mission
FM;CFF	fire mission call for fire
FM;CHANGE	fire mission change
FM;EOM	fire mission end of mission
FM;FDSMOD	fire mission fire direction system modification
FM;FOCMD	fire mission forward observer command
FM;INTM	friendly fire battery (TACFIRE)
FM;MTO	fire mission message to observer
FM;MVTGT	fire mission moving target
FM;OBCO	radar location (TACFIRE)
FM;RFAF	fire mission call for nonnuclear fire
FM;RFAF:X	fire mission request for additional fire
FM;SUBS	radar ready/registration report (TACFIRE)
FMC	field medical card
FMH	federal meteorology handbook
FO	Forward Observer

FOCMD	message type--forward observer command message
FOMET	fallout met message
FORSCO	Forces Command
FORSCOM	Forces Command
FOV	field of view
FP	firing point
FPF	Final Protective Fire
FPL	final protective line
FPT	firing point (mnemonic)
frag	fragmentation
FRAGO	fragmentary order
FRAGORD	Fragmentary Order
freq	frequency
FS	fire support; Fort Sill
FSB	forward support battalion
FSCL	fire support coordination line
FSCM	fire support coordinating measure
FSCoord	fire support coordinator (see also FSC)
FSD	family support division
FSE	fire support element
FSE;NBC1NU	fire support element nuclear burst sighting
FSN	Federal stock number
FSO	fire support officer
FSOP	field standard operating procedure
FSS	fire support supply
FST	Field Sanitation Team
FSU	Finance Support Unit
FSV	fire support vehicle

Ft	feet
FTA	fluorescent treponemal antibody
FTX	Field Training Exercise
FU	fire unit
FUE	First Unit Equipped
FULAT	indicates the latitude of the fire unit (measured in degrees)
FUZE	indicates last fuze that was fired in effect on the known point--four alphanumeric characters
fwd	forward
FWR	fire when ready
FY	Fiscal Year
fz	fuze
FZES	indicates the category code of the fuzes and the quantity of fuzes
G	nerve agent
g/dl	grams per deciliter
G/VLLD	ground/vehicular laser locator designator
G1	Assistant Chief of Staff, Personnel
G2	Assistant Chief of Staff, Intelligence
G3	Assistant Chief of Staff, Operations
G4	Assistant Chief of Staff, Logistics
G5	Assistant Chief of Staff, Civil Affairs
GA	gun assembly
GA&I	grease, automotive and industrial
GAA	grease, automotive and artillery
GB	nerve agent
GC	gyrocompass
GCE	Government Cost Estimate
GDU	gun display unit

GED	gasoline engine driven
GEOM	message category--alternate geometry file
GFE	Government furnished equipment
GFI	Government-Furnished Information
GFM	Government Furnished Material
GFT	graphical firing table
GI	government issue
GK	Gauss-Kruger
GLLD	ground laser locater designator
G-M	grid-magnetic
gm/m³	grams per cubic meter
GMD	the rawin set AN/GMD-1 main assembly
GMET	graphical munitions effects table
GMT	Greenwich mean time
GN	grid north
Gnd	Ground
GOCOM	US Army Reserve General Officer Command
GOSC	General Officer Steering Committee
GP	General Purpose
GPO	Government Printing Office
GPS	global positionary system
GRI	grid repetition interval
GRP	indicates the disposition of pieces relative to battery center; legal entries are C for center, L for left, and R for right
GRREG	graves registration
GRU	gyroscopic reference unit (SIAGL)
GRY	gray (LED display)
GS	General support
GSA	General Services Agency

GSE	ground support equipment
GSG	gunnery sergeant
GSR	general support reinforcing
GST	graphical site table; Greenwich sidereal time
GT	gun target
GTA	Graphic Training Aid
GUN	displays the gun fired in numeric character(s) from 1 to 12
GVO	green vinyl overboot
Gy	Grays
H	blister agent
HA	hide area
HARDMA	Hardware/manpower
HARDMAN	Acronym for a six-step analytical model that estimates the projected manpower, personnel, and training requirements of a baseline comparison or "notional" system design. This analysis is generally conducted prior to milestone I of the acquisition process during the Concept Exploration and Definition phase of the life cycle. The acronym is for hardware versus manpower methodology.
HAZCOM	Hazardous Communications
HB	heavy barrel, high burst
HB/MPI	high burst/mean point of impact
HBc	hepatitis B core antigen
HBMPI	HB or MPI registration data
HBsAg	hepatitis B surface antigen
HC	hydrochloric
HCG	human chorionic gonadotropin hormone
HCl	hydrochloric acid
Hct	microhematocrit
HCV	hepatitis C virus
HD	distilled mustard gas

HE	High Explosive
HEA	high explosive (deep cavity)
HEAT	High Explosive Anti-Tank
HEK	hektoen agar
HEMAT	heavy expanded-mobility ammunition trailer
HEMMS	Hand Emplaced Minefield Marking Set
HEMTT	heavy expanded-mobility tactical truck
HEP	high-explosive plastic
HEP-T	high-explosive plastic--tracer
HERA	high-explosive rocket-assisted
HG	Hand Grenade
Hgb	hemoglobin
HGT	height (LED display)
HHB	headquarters and headquarters battery
HHOUR	indicates H-hour designator in hours and minutes
HHS	Headquarters and Headquarters Service
HI	height of instrument
HIND D	Russian helicopter
HIV	human immunodeficiency virus
HMMWV	high-mobility multipurpose wheeled vehicle
HOB	height of burst
HOR WSP	horizontal wind speed
HORZ	horizontal (LED display)
how	howitzer
HPF	high power field
HPT	high-payoff target
HQ	Headquarters
HQDA	Headquarters, Department of the Army

hr	hour
HRPL	hand receipt property list
HS	home station
HSC	Health Services Command
HTF	how to fight
HTLV	human T-cell lymphotropic virus
HUM	humidity (LED display)
HUMINT	Human intelligence
HumRRO	Human Resources Research Organization
Hz	hertz (cycles per second)
i.e.	that is
IAT	internal air transport
IAW	In Accordance With
IBSO	Installation Branch Safety Office
IC	Installation Coordinator
ICBM	intercontinental ballistic missiles
ICH	Instructor contact hours
ICM	Improved Conventional Munitions
ICOM	imbedded communications; Intercommunications System
ICTP	individual and collective training plan
ICW	Interactive Courseware
ID	identification
IDED	internal defense and development
IDP	Initial Delay Position
IDSM	intermediate direct support maintenance
IDT	Inactive Duty Training
IEDK	individual equipment decontamination kit
IET	Initial Entry Training

IEW	intelligence and electronic warfare
IEWSE	intelligence and electronic warfare support element
IF	intermediate frequency
IFF	Identification Friend or Foe
IFV	Infantry fighting vehicle
IG	immunoglobulin (five classes: IgA, IgD, IgE, IgG, IgM)
IHFR	improved high frequency radio
IKPT	Instructor and key personnel training
ILL	illumination (mnemonic)
illum	illumination
ILS	Integrated Logistics Support
ILSMT	Integrated Logistics Support Management Team
ILSP	Integrated Logistics Support Plan
IMA	individual mobilization augumentees
IMINT	imagery intelligence
IN	Infantry
INEFF	precedes fire-for-effect data
Inf	Infantry
INFO	information addressee
INIT	initialization; initial or reinitiated request for registration mission; required on an initial request
INSCOM	US Army Intelligence and Security Command
Instr	Instruction
INTM	initiate mission-HB/MPI registration message
INTSUM	Intelligence summary
IOC	input/output control
IOTE	Initial Operational Test and Evaluation
IOU	input/output unit
IOX	input/output exchange

IP	initial point
IPB	Intelligence Preparation of Battlefield
IPD	Institute for Professional Development; Issue Priority Designator
IPR	In-Progress Review
IQSUM	input queue summary (mnemonic)
IR	infrared; information requirements
IRFNA	inhibited red fuming nitric acid
IRR	Individual Ready Reserve
ISA	International Standardization Agreement
ISE	intelligence support element
ISR	individual school requirement
ITA	image transfer assembly
ITAAS	Intelligence training Army area schools
ITC	Instructor Training Course
ITEP	Individual Training Evaluation Program
ITO	Invitational travel orders; Installation Transportation Officer
ITOE	intermediate table of organization and equipment
ITP	individual Training Plan
ITRO	Interservice Training Review Organization
ITS	Individual Training Strategy
IVD	Interactive Video Disc - a type of ICW
JAG	Judge Advocate General's Corps
JB	job book
JCLL	Joint Center for Lessons Learned
JCS	Joint Chiefs of Staff
JCSPUB	joint chief of staff publication
JINTACCS	Joint Interoperability of Tactical Command and Control Systems
JMEM	joint munitions effectiveness manual

JOG	joint operations graphic
JOIN	Joint Optical Information Network
JP	Joint Publication
JPM	Job Performance Measure
JS	jam strobing
JSEAD	Joint Suppression of Enemy Air Defense
JSTARS	Joint Surveillance and Target Acquisition Radar System
JTA	Joint Table of Allowances
JTENS	Joint Service Tactical Exploitation of National Systems
JTTP	Joint Tactics, Techniques, and Procedures
JUH-MTF	Joint User Handbook for Message Text Formats
JUMPS	Joint Uniform Military Pay System
JWG	Joint Working Group
K	potassium
KAV	Cryptographic training, operations
KC	kilocycle
kg	kilogram
kHz	kilohertz
KIA	Killed In Action
kilo	kilogram
km	kilometer
kmph	kilometers per hour
knpt	indicates known point number--one or two numeric characters
KOH	potassium hydroxide
KPa	kilopascal
KTC	Dryad Numeral Cypher/Authentication System (Training)
KTS	knots (LED display)
KTV	Cryptographic training, SOI

kw	kilowatt
L	left
LA	launch (LED display)
LARS	left, add; right, subtract (memory aid)
LAS	indicates laser mission; used to determine which laser mission to process
LATD	specifies the latitude of the top (northern edge) and the bottom (southern edge) of the map mod
LATI	indicates target latitude, reported in degrees, minutes, and seconds
LAW	light antitank weapon
lb	pound
LBE	load-bearing equipment
lc	light case
LCE	load carrying equipment
LCSSM	Life Cycle Systems Management Model
LCU	lightweight computer unit
LD	Line of Departure
LD/R	laser designator/range finder
Ldr	Leader
LDS	Light weight Decontaminating System
LED	light emitting diode
LEL	low energy laser
LES	leave and earnings statement
LF	line feed
LFX	Live Fire Exercise
LIC	Language Identifier Code
LLM	launcher loader module
ILt	First Lieutenant
LNE	Late Net Entry

LO	Learning Objective
LOA	Letter of Agreement
LOC	logistics operations center
LOG;APU	option to log all incoming and outgoing messages to APU
LOI	Letter of Instruction
LONGD	specifies the longitude of the right side (eastern edge) and the left side (western edge) of the map mod
LONGI	indicates target longitude, reported in degrees, minutes, and seconds
LORAN	long-range aid to navigation; a long distance radio navigation system for aircraft and ships, utilizing synchronized pulses transmitted simultaneously from widely spaced transmitting stations; position is determined by measuring the difference in the time of arrival of these pulses
LORAN C	an accurate long-range system of navigation; operates in the frequency band between 90 and 100 kHz
LOS	line of sight
LOT2R	indicates registration of second lot of powder
LP	Listening Post
LP/C	launch pod/container
LPA	launch pod assembly
LPF	low power field
LR	laser range finder
LRA	local reproduction authorized
LRDF	laser range danger fan
LRF	laser range finder
LRRDAP	Long Range Research, Development, and Acquisition Plan
LSA	Logistics Support Analysis
LSAR	Logistics Support Analysis Report
LSD	least separation distance
LST	local sidereal time
LT	loader-transporter

LTC	lieutenant colonel
LTD	laser target designator
LTOE	living tables of organization and equipment
LZL	launcher zero length
M	meter
M&D	maintenance and diagnostic
m/	mil
MA	milliampere; Marshalling Area
MAADP	Mission Area Analysis Deficiency Program
MAC	Maintenance Allocation Chart
MACOM	Major Army Command
MAJX	specifies major axis dimension; required when SPHERE:8 is entered
MAN	manual
MANPRI	Manpower and Personnel Integration
map mod	map modification
MARC	Manpower Requirements Criteria
MARKS	modern Army record keeping system
MASK	message type--fire unit mask
MASKA-MASKH	indicates the following mask data: mask number, left azimuth, right azimuth, range to center of mask, and elevation
MASKTI	level of training in nuclear, biological, chemical (NBC) protection
max	maximum
MAXEL	indicates the maximum elevation of the artillery pieces in the battery
MAXORD	displays the maximum ordinate of the computed trajectory plus the battery altitude
MAXRTE	indicates the maximum rate of fire of the battery in tenths of rounds per minute
mb	millibars
MBA	Main Battle Area

MBC	mortar ballistic computer
MBL	mean burst location
MBS	millibars (LED display)
MC	Medical Corps
MCA	Major Commercial Account
MCM	Materiel Change Management
MCMU	mass core memory unit
MCSR	material condition status report
MCT	Movement Control Team
MD	Military Deception
MD;RCV5	communications test (TACFIRE)
MD;XMT5	communications test (TACFIRE)
MDEP	Master Evaluation Plan
MDP	Management Decision Packages
MDR	Milestone Decision Review
MDS	meteorological data system
MDW	US Army Military District of Washington
ME	indicates method of engagement; used to determine mission type and angle of fire
MEA/DMSO	monoethylamine/dimethylsulfoxide
Mech	Mechanized
MEDEVAC	Medical Evacuation
mEq/L	milliequivalents per liter
met	meteorological
MET;CM	meteorological computer meteorological
MET;TA	meteorological target acquisition data
MET;TALL	meteorological target area low level data
METC	meteorology convert
meth eng	method of engagement

METL	Mission Essential Talk List
METT-T	Mission, Enemy, Terrain, Troops, and Time
METT-TC	Mission, Enemy, Terrain, Troops, Time and Conditions
METUSE	the MET file to be used in computation--one alphanumeric character (1 or 2 = CM file 1 or 2, S + STDMET)
METZNE	met zone
MF	indicates method of fire; included in firing orders displayed and transmitted
MFM	mission fired message
MFR	mission fired report
MFT	master fitness trainer
MG	machine gun
mg/dl	milligrams per deciliter
MHz	Megahertz
MI	Military Intelligence
MIA	Missing In Action
MICLIC	Mine Clearing Line Charge
MIF	merthiolate-iodine-formaldehyde
MIJI	meaconing intrusion jamming interference
MILCON	Military Construction
MILES	Multiple Integrated Laser Engagement System
MIL-ST	Military Standard
min	minute
min/hr	minutes per hour
MINX	specifies ellipsoid minor axis dimension; required when SPHERE: 8 is entered
MIPR	Military Interdevelopmental Purchase Request
MIS	indicates observer mission number--one numeric character (1 or 2)
MJWG	MANPRINT Joint Working Group

MK	manual remote keying
MK1	MARK1
ml	milliliter
MLPA	missile/launch pod assembly
MLRS	multiple launch rocket system
MLRS;CHKF	multiple launch rocket system check firing
MLRS;CFF	multiple launch rocket system call for fire
MLRS;COMD	multiple launch rocket system command
MLRS;DBU	multiple launch rocket system data base update
MLRS;MFR	multiple launch rocket system mission fired report
MLRS;REQ	multiple launch rocket system request for tactical data
MLRS;RESPON	multiple launch rocket system response message
MLRS;STATUS	multiple launch rocket system mission status report
mm	millimeter
mm Hg	millimeters of mercury
mm/	millimeter
MMA	missile main assemblage
mmol/L	millimoles per liter
MMTR	Military Manpower Training Reports
mnemonic	Abbreviated forms of words or groups of words (never more than six alphanumeric characters).
Mnemonics	A technique such as a formula or rhyme used as a memory aid.
MNS	Mission Needs Statement
MO	monthly
MOA	Memorandum of Agreement
MOC	Management of Change
MODE	block mode for channel 1 and channel 2 (single or double block mode)
MODEL	indicates the weapon model type used by the battery in six alphanumeric characters

MOF	method of fire
MOI	message of interest
MOPIC	Motion picture
MOPP	Mission-oriented protective posture
MOS	Military Occupational Specialty
MOSC	military occupational specialty code
MOSQ	MOS Qualified
MOU	Memorandum of Understanding
MOUT	Military Operations on Urban Terrain
MP	Military Police
MPG	map preparation guide
MPH	miles per hour
MPI	mean point of impact
MPOLL	option to enter gun display unit polling control; manual entry only
MPT	Manpower, Personnel, Training; Mission Training Plan;
MQS	Military Qualification Standards
MQS I	Military Qualification Standards I
MQSM	Military Qualification Standards (MQS) Manuals
MQSMCT	MQS Manual of Common Tasks
MRB	Motorized Rifle Battalion
MRIS	Modernization Resource Information System
MRL	multiple rocket launcher
MRR	Motorized Rifle Regiment
MS	methyl salicylate
MS-3	Manpower Staffing Standards System
MSC	Medical Service Corps
MSD	minimum safe distance
MSE	mobile subscriber equipment

msec	millisecond
MSG	message
MSGID	Message Identification
MSN	mission of fire unit
MSR	Main Supply Route
MSRT	mobile subscriber radiotelephone terminal
MSS	Manpower Staffing Standards
MST	maintenance support team
mt	mountain
MTC	magnetic tape cartridge
MTDA	modified table of distribution and allowances
MTF	medical treatment facility; medical transfer facility
MTLR	moving-target-locating radar
MTMC	Military Traffic Management Command
MTO	message type--message to observer
MTOE	Modified Table of Organization and Equipment
MTP	Mission Training Plan
MTS	module test set
MTSQ	mechanical time superquick (fuze)
MTU	magnetic tape unit
MULARSC	Multiple Launch Rocket System Cadre
MULE	modular universal laser equipment
MUPDATE	the MET file to be updated by MET;CM--one numeric character (1 or 2 = CM file 1 or 2)
MV	muzzle velocity
MV1-MV5	indicates muzzle velocity specification as follows: muzzle velocity in meters per second, shell category, powder log, and charge fired
MVCT	muzzle velocity correction table
MVD	muzzle velocity derivation

MWR	Morale, Welfare, and Recreation
MYEFF	estimated effects on the target
MYIELD	indicates the mark, designator, and yield, in kilotons, and the number of rounds
MYR	Mid Year Review
N	number
N.M	Newton meters
NA	sodium
NaHCO₃	sodium bicarbonate
NAIAD	nerve agent immobilized enzyme alarm and detector
NAK	negative acknowledgement
NAME	identifies the name of the fire coordination area--six alphanumeric characters
NaOH	sodium hydroxide
NARIA	nuclear accident/incident response and assistance
NATO	North Atlantic Treaty Organization
NAVAID	navigational aid
NAVAIDS	navigation aids
NBC	Nuclear, Biological, and Chemical
NBCWRS	nuclear, biological, chemical warning and reporting system
NCO	Noncommissioned Officer
NCOA	NCO Academy
NCO-ER	noncommissioned officer evaluation report
NCOES	NCO Education System
NCOIC	Noncommissioned Officer In Charge
NCS	net control station
NCTAC	Nuclear/chemical Target Analysis Course
NDC	NAVAID data converter
NDCC	National Defense Cadet Corps

NDI	Nondevelopmental Items
NDU	NAVAID data unit
NEO	noncombat evacuation order
NET	New Equipment Training; network
NETP	New Equipment Training Plan
NETT	New Equipment Training Team
NETTSP	New Equipment Training Test Support Package
NFA	no-fire area
NFP	nuclear fire planning
NG	National Guard
NGF	naval gunfire
NGLO	naval gunfire liaison officer
NGT	naval gunfire
NGTR	not-greater-than range
NHSC	National Home Study Council
NICAD	nickel-cadmium
NLT	displays the "not later than" time for indirect fires and aerial delivered munition in hours and minutes
NMC	nonmission capable
NMS	National Military Strategy
NNFP	nonnuclear fire planning, nonnuclear fire plan
NNFP;EXECFP NUCLEAR	nonnuclear fire plan execute fire plan
NNFP;TARGET NUCLEAR	nonnuclear fire plan target message
No	number
NOHD	nominal ocular hazard distance
NOK	Next Of Kin
NORTH	defines maximum then minimum northing location of the 100,000-meter grid square
NRBC	nucleated red blood cell

NRI	net radio interface
N-S	North-South
NSA	National Security Agency
NSG	north-seeking gyrocompass
NSN	nonstandard number; National Stock Number
NTA	nuclear target analysis
NTC	National Training Center
NUC	nuclear
NUCAC	Nuclear Cannon Assembly Course
NUCD	nuclear development
NUCWARN	nuclear warning
NV	nonvolatile
NWDOC	Nuclear Warhead Detachment Officer Course
O&I	operations and intelligence
O&S	Operating and Support
O/L	observation lasing
OAC	officer advanced course
OB	order of battle; Organizational Behavior; observation; observer-burst; obsolete; indicates observer number--two numeric characters
OBC	Officer Basic Course
OBCO	observer location input message
OBCORD	observer's location reported in easting, northing, and altitude; used to compute target location; location reported in easting, northing, and altitude; used to compute hostile battery location (ATI;SHR)
OBINFO	indication to observer of type of mission (HB or MPI) and whether observer should measure the vertical angle
OBJ	Objective
obs	obstacle
OBSN	indicates target position adjustment for the laser--four to six alphabetic characters

OCOKA	Observation and fire, Concealment and cover, Obstacles, Key terrain, and Avenues of approach
OCONUS	Outside Continental U.S.
OCS	officer candidate school
OD	olive drab
ODARS	Occupational Data, Analysis, Requirements and Structure
ODCST	Office of the Deputy Chief of Staff for Training
OEG	Operational Exposure Guidance
OER	officer evaluation report
OF	Observed Fire
OFS	Officer Foundation Standards
OHT	fluid, hydraulic, petroleum base, preservative
OIC	officer in charge
OJT	On-The-Job Training
OK	okay (LED display)
OL	orienting line
OMA	Operations Maintenance Army
OMPF	official military personnel file
OMS	optical mechanical scanner
ONC	on call
OOTW	Operations Other Than War
OP	Observation Post
OPA	Other Procurement Army
OPAREA	operational area
OPCODE	operational code
OPCON	operational control
OPER	Operation
OPFOR	Opposing Forces
OPLAN	Operations Plan

OPM	Office of Personnel Management
OPMODE	operation mode
OPMS	Officer Personnel Management System
OPORD	Operations Order
OPS	operations
OPSEC	Operations Security
OPSECREP	OPSEC Activities Report
OPTEMP	Operating Tempo
ORD	Operational Requirements Document
ORF	operation readiness float
ORP	Objective Rallying Point
OS	orienting station
OSC	oscillator (LED display)
OSUT	One-station Unit Training
OT	Observer Target
OTH	other-than-honorable conditions
OUTTIL	indicates that unit is out of action until the time specified; shown in days, hours, and minutes
OVE	on vehicle equipment
P	pass
P3I	Preplanned Product Improvement
PAC	Personnel and Administration Center
PACOM	US Pacific Command
PADS	position and azimuth determining system
PAE	position, azimuth, elevation (PADS)
PAL	permissive action link
Pam	Pamphlet
PAM CI	pralidoxime chloride

PAN	Production Approval Number
pantel	panoramic telescope
PAO	Personnel Affairs Officer
para	paragraph
PB	particle beam, property book
PBG	Program Budget Guidance
PCG	power converter group
PCI	precombat inspection
PCN	production control number
PCR	piece-to-crest range
PCS	permanent change of station
PCU	power converter unit
PD	point-detonating (fuze); point of departure
PDB	power distribution box
PDB/SNVT	power distribution box/short/no-voltage tester
PDDA	Power-Driven Decontaminating Apparatus
PDDE	Power-Driven Decontamination Equipment
PDF	principal direction of fire
PDS	position determining system
PDU	power distribution unit
PDY	present for duty, principal duty
PE	Practical Exercise
PED	indicates one probable error in deflection in meters
PEH	indicates one probable error in height in meters
PEO/PM	Program Executive Officer/Project Manager
PER	indicates one probable error in range, if greater than 25 meters
PERMNC	target permanence (how long it is expected to stay where it is)
PERSIN	Personnel Information Systems Command

PFC	Private First Class
PFTDS	Postfielding Training Development Study
PFTEA	Post Fielding Training Effectiveness Analysis
pH	the negative logarithm of the hydrogen ion activity
PHOTINT	Photo Intelligence
PIECES	position of pieces
PIM	payload interface module
PIN	Production Identification Number
PIR	pulsed interference rejection; priority intelligence requirement
PK	professional knowledge
PL	preservative lubricant; platoon leader
PLAN	indicates the plan name--one to six alphanumeric characters
PLDC	Primary Leadership Development Course
PLDMD	platoon leader's digital message device
PLL	prescribed load list
PL-S	preservative, lubricate-semiannual
PLT	platoon
plt ldr	platoon leader
PLU	program load unit
PLV	platoon leader's vehicle
PM	Program Manager; Preventive Maintenance
PMCS	Preventive Maintenance Checks and Services
PME	professional military education
PMN	polymorphonuclear
PMO	Provost Marshalls Office
PMOS	Primary Military Occupational Specialty
PMS	professor of military science
PNL	prescribed nuclear load

PO	power (LED display)
POC	Point of Contact; platoon operations center
POE	Point of Embarkation; Port of Entry
POI	Program of Instruction
POIMM	Program of Instruction Management Model
POL	Petroleum, Oils, and Lubricants
POM	Program Objective Memorandum; Prepare for Overseas Movement
POM (T)	Program Objective Memorandum (TRADOC)
POSI	position (LED display)
POV	privately owned vehicle
PP	Passage Point
PPBES	Planning, Programming, Budgeting, and Execution System
PPDB	point positioning data base
PPM	parts per million
Pract	Practice
PREAMBLE	the preamble length code in seconds--three numeric characters
PREAMP	preamplifier
PRF	pulse repetition frequency
PRI	Primary Review Authority
PRIM	primary (LED display)
PRINT	enables initialization data and subscriber table information to be printed
PROJA	indicates the following projectile A and B information: shell type, shell lot designator, weight of the shell (pounds), and quantity of the shell
prop	propellant
prop temp	propellant temperaure
PROT	protect (LED display)
PRP	personnel reliability program
PRR	Personnel Requirements Report
PRS	air pressure

PS	power supply (PADS)
PS and A	Pharmacy Supply and Administration
PSC	Personnel Service Company
PSG	Personnel Service Group; platoon sergeant
PSI	pounds per square inch
PSNCO	Personnel Services Noncommissioned Officer
PSR	Personnel Status Report
PT	physical training
PTA	preliminary target analysis
PTC	primary technical controller
PTEMP	indicates the Fahrenheit temperature of the powder charges--one to five numeric characters
PTF	piece to fire
PTM	indicates plain text message at a variable length
PTO	power takeoff
PTR	printer (LED display)
PUP	pull-up point
PV2	private second class
PW	prisoner of war
PWP	Plasticized White Phosphorus
PWR	Power
PX	Post Exchange
Q	quick (fuze)
q.s.	quantity sufficient
Q3R	question, read, recite, and review
QAR	Quality Acceptance Report
QBC	quantitative buffycoat analysis
QC	quality control

QE	quadrant elevation
QF	message type--quick fire request
QM	Quartermaster Corps
QQPRI	Qualitative and Quantitative Personnel Requirements Inf
QSS	Quick Supply Store
QSTAG	Quadripartite Standardization Agreement
QT	quarterly
QTB	quarterly training briefing
R	right
R&S	Reconnaissance and Security
R/S	radiosonde simulator
R3P	rearm, refuel, resupply point
RA	Regular Army
RAA	Regional Assembly Area
RAAMS	remote antiarmor mine system
rad	roentgens
RADAR	radar registration indicator; required in an initial radar request
radiosonde	a balloonborne instrument (radio) that measures and transmits meteorological data
RAG	regimental artillery group (Soviet)
RAM	random-access memory
Random selection	A process of choosing people or objects at random rather than through some systematic plan.
RAOC	rear area operations center
RAP	rocket-assisted projectile
RATE	specifies high (1200) or low (600) baud rate--two numeric characters, in bits per second
RATELO	radiotelephone operator
RATT	Radioteletype
RB	red bag (ammunition)

RBC	rifle bore cleaner
RC	Reserve Component; Red Cross
RC3	Reserve Component Course Configuration
RCA	riot control agents
Rcd	Record
RCE	Regional Coordinating Element
RCF	range correction factor
RCS	Reports Control Symbol
RCTDAP	Reserve Component Training Development Action Plan
RCU	remote control unit
RCUCH	Reserve Component Unit Commander's Handbook
RD	recorder division
RDF	radio direction finder; rapid deployment forces
RDO	radar deployment order
RDP	range-deflection protractor
RDS	Requirements Data Sheet
RDT	remote data terminal
RDT&E	Research, Development, Test, and Evaluation
reaction time	The amount of time that a firing unit requires to be ready to fire.
READY	indicates that unit is now ready to process fire missions
Ready Reserve	The Selected Reserve and Individual Ready Reserve liable for active duty as prescribed by law.
REC	recorder (LED display)
recon	reconnaissance
record	A group of fields treated as a unit (such as a target record).
REDTRAIN	Readiness Training
REF	Reference
Reference-dependent task	A task which requires frequent or continuous use of a reference during task performance.

Reference-independent task	A task which must be performed without the aid of references due to mission or job requirements.
Reg	Regiment
Reinforcement training	See "Refresher training."
REJ	indicates rounds that are to be rejected
REL	entry indicates reliability of the report--one alphabetic character (excellent, fair, good)
REL HUM	relative humidity (LED display)
REMEX	reader-perforator
rendezvous point location	A predetermined location for linkup.
REP	initiates target replot command--one numeric character
RES	Radiation Exposure Status
RET BRT	reticle brightness (switch setting)
RETRANS	Retransmission
RF	Reserve Forces; Radio Frequency
RFA	restricted fire area
RFAF	message type--fire mission input message (request for additional fire)
RFD	radio frequency detection
RFI	Reserve Forces Intelligence
RFL	restrictive fire line
rg	range
Rh	human blood grouping system
RIF	reduction-in-force
Risk	A hazard, danger, or peril; exposure to loss or injury; the degree of probability or loss.
RKV	remote keying variable
RL	reload point
RM	reparable management
RMU	Resource Management Update

RNG	range (switch setting)
RNGCR	indicates the range correction (+ or - and three numeric characters)
ROD	report of discrepancy
ROE	Rules of Engagement
ROM	read-only memory
ROTC	Reserve Officer Training Corps
RP	Release Point
RPG	rocket-propelled grenade
rpm	revolutions per minute.
RPSTL	Repair Parts Special Tools List
rpts	reports
RRC	Requirements Review Committee
RSI	Rationalization, Standardization, and Interoperability
RSO	reconnaissance and survey officer
RSOP	Recall Standard Operating Procedures; reconnaissance, selection, and occupation of position
RSP	response
RSR	required supply rate
RST	resupply trailer
RSTA	reconnaissance, surveillance, and target acquisition
RSV	resupply vehicle
RSV/T	resupply vehicle and trailer
RT	remote theodolite, receiver-transmitter; radio transceiver
RTP	Radio Telephone Procedure
RTS	Regional Training Sites
RTS-M	Regional Training Sites-Maintenance
RTS-Me	Regional Training Sites - Medical
RTS-S	Regional Training Sites - Supply
RTT	radio teletype

RTV	rubber transduce vulcanizant
RV	indicates report value in meters--one to three alphabetic characters
RWND	rewind
RXMT	Retransmit
S	safe
S&S	Service and Supply
S.C.	short circuit
S/C	section chief
S1	Adjutant (US Army)
S1-S5	indicates the subscriber serial number message accountability code
S2	Battalion Intelligence Officer
S3	Battalion Operations Officer
S4	Battalion Supply Officer
S5	Civil Affairs Operations Officer (US Army)
SA	Sino-Atrial; Support Activity
SAAS	Standard Army Ammunition System
SAEDA	Subversion And Espionage Directed Against the US Army
SALUTE	size, activity, location, unit, time, equipment
SAM	surface-to-air missile
SARK	Saville automatic remote keying
SARSS	Standard Army Retail Supply System
SASP	special ammunition supply point
SAT	Systems Approach to Training
SATRAN	Satellite Reconnaissance Advance Notice Report
SATS	Standard Army Training Systems
SAW	Squad Automatic Weapons
SB	Supply Bulletin
SBT	subscriber table

SC	Signal Corps
SCA	section chief assembly
SCP	survey control point
Scribecoat	See Negative engraving.
SDK	skin decontaminating kit
SEAD	suppression of enemy air defenses
sec	second
secondary station	a NAVAID radio transmitter whose emissions are synchronized to those of the primary station
SEDME-MR	survey equipment, distance-measuring, electronic-medium range
SEER	Senior Enlisted Evaluation Report
Self-study	Individual study by which a soldier learns or reinforces previous learning, on his/her own.
SEMI	semiautomatic
SEN	Satellite Education Network
SERE	Survival, Escape, Resistance, and Evasion
SF	Standard Form
SFC	Sergeant First Class
SGI	Small Group Instruction
SGL	Small Group Leader
SGM	sergeant major
SGT	Sergeant
SH	sexual harassment
Shaping	The process of gradually changing a student's behavior until it conforms to the desired behavior.
Shared task	See "Task."
SHEAF	displays the target sheaf type--open, converged, or special
SHELL	indicates last shell that was fired in effect on the known point--three alphabetic characters
SHELREP	shelling report

SHFCOR	entry of one alphabetic character results in a change in shift data
SHL	indicates shell to be fired--three alphanumeric characters
short coordinates	Coordinates that contain five or less digits for northing and easting.
Short-range Training Strategies	See "Training strategy."
SHR	shell report message
SHTU	simplified handheld terminal unit
SI	Skill Identifier
SIAGL	survey instrument, azimuth gyro, lightweight
SIDPERS	Standards Installation Division Personnel System
SIG	Signal
SIG STR	signal strength
SIGINT	Signal Intelligence
SIGNIT	signal intelligence
SIGSEC	Signal Security
SIM	simulator (LED display)
SIMNET	Simulation Networking
SIMO	simultaneous observation
SINCGARS	single-channel ground and airborne radio system
SIT	identifies the number of rounds that may be specified (a maximum of three)
SITMAP	Situation Map
SITREP	Situation Report
SITREPS	situation reports
Situational Training Exercise (STX)	See "Exercise."
SIZE	indicates the target size with reference to radius or length and width; used during sheaf processing
SJA	Staff Judge Advocate
SKO	Sets, Kits and Outfits
SL	skill level

SLAR	side-looking airborne radar
SLO	suspension lockout
SM	Soldier's Manuals
SMCT	Soldier's Manual of Common Tasks
SMDR	Structured Manning Decision Review
SME	Subject Matter Expert
smk	smoke
SMMP	System MANPRINT Management Plan
SMOS	secondary military occupational specialty
SMS	soldier's manual supplement
SNC	Senior Noncommissioned Officer Course (SNCOOC)
SNCO	Senior Noncommissioned Officer
SNVT	short/no-voltage tester
software	Computer programs, procedures and documentation that deal with operation of the computer.
SOI	Signal Operation Instruction
SOI/SSI	Signal Operating Instruction/Signal Supplemental Instruction
sonde	a device used for testing physical conditions
SONDE SIM	radiosonde simulator
SOP	Standard Operating Procedure
SOSES	size, orientation, shape, elevation, and slope
SOSR	Suppression, Obscuration, Security, and Reduction
sounding balloon	a free, unmanned balloon carrying a radiosonde to sound the upper air
SOUTHCOM	US Army Southern Command
SOW	Statement of Work
SP	Start Point
SPAP	special application
SPBS	Standard Property Book System

SPC	Specialist
SPC4	specialist fourth class
SPCE	survey planning and coordination element
SPDS	Standard Property Book System Redesigned
SPL	self-propelled launcher
SPLL	self-propelled launcher-loader
SPLY	supply (LED display)
SPOE	Seaport of Embarkation
S-P-O-R-T-S	slap, pull, observe, release, tap, shoot
SPOTREP	Spot Report
SPR	Systems Program Review
SPRT	support message category
SPRT;BGEOM	support battlefield geometry
SPRT;CONV	support convert coordinate data
SPRT;DATUM	support datum information
SPRT;FILTER	priority/censor zone (TACFIRE)
SPRT;MAP	support map modification
SPRT;REQST	support status request
SPRT;SCPST	support survey control point status
SPRT;SEARCH	radar search area (TACFIRE)
SPRT;TPAC	support survey control point request
SPRT;ZNE	support zone of responsibility data
SPT	support
SQ	superquick (fuze); squelch
sq mm	square millimeter
SQD	squad
SQI	Skill Qualification Identifier
SQT	skill qualification test

SR	Supply Route
SRF	strategic rocket forces
SRP	School Requirements Package
SRP/FCU	stabilization reference package/fire control unit
SRP/PDS	stabilization reference package/position-determining system
SS4	Direct Support Unit Standard Supply System
SSE	seconds east (2 digits) (LED display)
SSG	Special Study Group
SSI	Special Skill Identifier; Signal Security Instructions
SSN	Social Security Number
ST	special text
STANAG	Standardization Agreement
STANO	Surveillance, Target Acquisition, and Night Observation
STAR	Systems Threat Assessment Report
Statement of work	This document describes to the contractor precisely the level of effort and the products desired.
STATREP	Status Report
STATUS	BCD status--ON or OFF
STB	super tropical bleach
STC	significant temperature change
STD	sexually transmitted disease
STDMET	indicates if standard met data are being used
STDODD	indicates the letter code for the standard odd powder lot
Stem	The part of a multiple-choice test item which asks a question.
STF	Special Task Force
STP	Soldier Training Publication
STR	indicates target strength--four numeric characters
STRAC	standards in training commission
STRAP	Systems Training Plan

STRICO	Simulation, Training, and Instrumentation Command
STRIKWARN	nuclear strike warning
STS	stockpile to target sequence
STX	Situational Training Exercise
Subcal	Subcaliber
SUBS	message type--subsequent adjustment
Suppl	Supplement
support geometry	Control lines, boundaries and areas used to coordinate fire and maneuver.
SUPRP	supplementary surface weather report
SURV;FPTST	survey firing point status
survey Q3R	survey, question, read, recite, and review method
SUSRTE	indicates the sustained rate of fire of the battery in tenths of rounds per minutes
sust	sustainment
Sustainment training	See "Refresher training."
SVY	surveyed location
SYS;AUTO	system automatic processing initiator
SYS;COMM	system communications data
SYS;FORM	system format request
SYS;INDEX	system index
SYS;IQSUM	system input queue summary
SYS;MSGSUM	system message skeleton summary
SYS;PTM	system plain text message
SYS;SBT	system subscriber data message
SYS;SETUP	system setup message
SYS;TESTS	system test selection menu
System training device	See "Training device."
T&E	traversing and elevating

TA	Target Acquisition
TAA	Tactical Assembly Area
Tab	Table
TACCS	Tactical Army Combat Service Support Computer System
TACFIRE	tactical fire direction system
TACMS	tactical missile system
TACP	tactical air control party
TADSS	Training Aids, Devices, Simulators, and Simulations
TADV	Management Decision Package (MDEP) designation for training development.
TAI	target area of interest; TRADOC Acquisition Instruction
TAMCA	Theater Army Movement Control Activity
TAMMS	The Army Maintenance Management System
TAP	Army Plan
TAPERSCOM	Total Army Personnel Command
target attitude	The azimuth of the long axis of a rectangular target.
TAS	Target Audience Soldier
Task - Critical collective task	A collective task that is critical. See "collective task" and "critical task."
Task - Critical common collective task	A common collective task which is critical. See "common collective task" and "critical task."
Task - Critical common skill level task	A common skill level task which is critical. See "common skill level task" and "critical task."
Task - Critical common soldier task	A common soldier task that is critical. See "common soldier task" and "critical task."
Task - Critical individual task	An individual task which is critical. See "individual task" and "critical task."
Task - Critical shared task	A shared task which is critical. See "shared task" and "critical task."
Task condition	See "Condition."
Task performance measure	See "Performance measures."
Task standard	See "Standard."

Task step	See "task performance step."
TATS	Total Army Training System
TB	Technical Bulletin
TBD	To be developed
TBG	TRADOC Budget Guidance
TBP	To be printed
TC	Technical Coordinator; Training Circular
TCA	TRADOC Contracting Activity
TCAE	technical control and analysis element
TCMD	Transportation Control Movement Document
TCP	Technical Cooperation Program
TD	Training Development
TDA	Table of Distribution and Allowance
TDFR	Training Device Fabrication Request
TDR	Training Device Requirement
TDRRC	Training Device Requirements Review Committee
TDS	Training Development Study
TDSS	TRADOC Decision Support System
TDWP-A	Training Development Workload Planner-Automated Systems
TDY	Temporary Duty
TE	tool, equipment
TEA	Training Effectiveness Analysis
Team teaching	The coordinated efforts of two or more instructors working together in an instructional situation.
Team training	Training a group of personnel to perform related or integrated functions as a team.
TEB	Technical Evaluation Board
TEBS	telescope-elbow-boresighting
TEC	Training Extension Course

TECHDOC	Technical Document
TECHINT	Technical Intelligence
technical fire direction	The process of computing firing data necessary to lay and fire the missile.
TEK	traffic encryption key
Teletraining	Training delivered via communication links such as satellite or cable links.
TEMP	Test and Evaluation Master Plan
TES	Tactical Engagement System
TF	Task Force
TFC	tactical fire control
TFT	tabular firing table
TG	Trainer's Guides
TGPC	terrain gun position correction
TGT/KNPT	target/known point
TGTNO	must be entered to permit target number assignments to be made from assigned block of numbers
TH1	Thermite
TH3	thermite
THDLT	theodolite (LED display)
thermistor	a resistor that reacts to temperature changes
THIO	thioglycollate broth
ti	time
TIA	Training Impact Analysis
TID	TACFIRE interface device
TIG	time in grade
TIME	displays current system time in hours, minutes, and seconds; maintained in upper display area
TIME 0	response time
TIMECR	indicates the time correction

TIMEOUT	the time in seconds allotted for waiting for ACK for the subscriber
TIP	telescope in place
TIRPT	time repeat; used to initiate time portion of precision registration
TIS	time in service
TLASBAPP	trails, lay, aiming point, site-to-crest, boresight, azimuth marks, prefire checks, position improvements (memory aid)
TLO	Terminal Learning Objectives
TLRP	TRADOC Long Range Plan
TM	Technical Manual(s)
TMA	Training Mission Area
TMDE	Test Measurement and Diagnostic Equipment
TMEC	TRADOC Materiel Evaluation Committee
T-MI	Training-Modeling Integration
TNET	Teletraining Network
tng	training
TNT	trinitrotoluene
TOC	tactical operations center
TOD	time of day
TOE	Table of Organization and Equipment
TOF	time of flight
TOO	technical operations order
TOT	time on target
TOW	tube-launched, optically tracked, wire-guided
TP	Target Practice
TPFDD	Time Phased Force Deployment Data
TPOM	TRADOC Program Objective Memorandum
TPU	troop program units
TR	TRADOC Regulation
TRAC	TRADOC Analysis Center

TRADOC	Training and Doctrine Command
Training Development Project Management Plan	See "Project Management Plan"
Training emphasis	See "task selection model."
Training media	See "Media."
Training Requirements Analysis System (TRAS)	See "Army Training Requirements Analysis System" and TRADOC Reg 351-1.
Training resources	Those human, physical, financial, and time resources used to conduct and support training.
Training sequence	Ordering the parts of a training program/course to optimize learning.
Training site selection	See "Training strategy."
trans	transformation
TRAS	Training Requirements Analysis System
TRAVLR	indicates the right or left traverse limits of the battery in mils
TREE	transient radiation effects on electronics
TRH	time relative to H-hour
trig	trigonometric
Trk	truck
TRM	TRADOC Review of Manpower
TRP	Target Reference Point
true north	the direction from any point on the earth's surface toward the geographic north pole
TS	test set
TSC	Training Support Center
TSCD	targeting station control display
TSK	Transmission Security Key
TSM	TRADOC Systems Manager; target selection matrix
TSO	training standards officer
TSOP	Tactical Standard Operating Procedure
TSP	Training Support Package

TSR	Training Support Requirements
TSS	target selection standard
TTCP	Test Training Certification Plan
TTF	time to fire
TTFC	tactical and technical fire control
TTP	Tactics, Techniques, and Procedures
TTSP	Training Test Support Package
TTT	timed time on target
TTU	tape transport unit
TU	traversing unit
TVT	Television tape
TW	target width
TWD	thermal warning device
TWR	time when ready
TYP	target type
U	up
U.S.	United States
UAA	Unit Assembly Area
UAV	Unmanned Aerial Vehicle
UCE	upgraded counterfire equipment
UCMJ	Uniform Code of Military Justice
UDMH	unsymmetrical dimethylhydrazine
UFFE	indicates unit to fire the final protective fire for the designated observer
UFFE1	unit to fire
UFFES	units to fire for effect
UIC	unit identification code
uL	microliter
ULLS	Unit Level Logistics System

UMC	Unit Maintenance Coordinator
UMCP	Unit Maintenance Collection Point
UMD	Unit Manning Document
UMO	Unit Maintenance Officer; Unit Movement Officer
Unit training	Training (individual, collective, and joint or combined) conducted in a unit.
UNITS	number of units firing in effect
universal traverse mercator	a system of dividing the earth's surface into 1000-meter grid zones using mercator projection
UPDATE	message type-fire unit update; indicates file used to update; ATI;SHR message; target report update
UREINF	unit being reinforced
US	United States
US/NATO	United States/North Atlantic Treaty Organization
USA	United States Army
USAAGPC	U.S. Army Adjutant General Publications Center
USACE	US Army Corps of Engineers
USAES	United States Army Engineer School
USAF	United States Air Force
USAFAS	US Army Field Artillery School
USAISC	U.S. Army Information Systems Command
USAPPC	U.S. Army Publications and Printing Command
USAR	U.S. Army Reserve
USARC	U.S. Army Reserve Command
USAREU	U.S. Army Europe
USARF	US Army Reserve Forces
USASMA	United States Army Sergeants Major Academy
USATSC	U.S. Army Training Support Command
USC	United States Code
USCS	United States custom Service

USDA	United States Department Agriculture
USFJ	US Forces, Japan
USFK	US Forces, Korea
USMA	United States Military Academy
USMC	U. S. Marine Corps
USMTF	United States Message Text Format
UTL	Unit Transmittal Letter
UTM	Universal Transverse Mercator
UW	unconventional warfare
UXO	Unexploded Ordnance
V	nerve agent
v AC	volts alternating current
v DC	volts direct current
VA	vertical angle
VACR	Visual Recognition
variable format message device	A remote message input display and entry printing device. A major component of TACFIRE.
VARO	valve adjusting run out
VC	Veterinary Corps
VCO	vertical control operator
VE	velocity error
VEGTAT	vegetation type
Ven	venous mode
VER WSP	vertical wind speed
VERT	vertical (LED display)
Vertical control	The survey control points for which the elevation of the point has been determined by leveling.
VFMED	variable format message entry device
VFPS	ventilated facepiece system

VGA	Video Graphics Array
VI	Visual Information
VICAS	North Atlantic Treaty Organization (NATO) Standardizati
VIS	Visual
VISIB	visibility
VLF	a very low frequency navigation system, using the frequency band between 10 and 25 kHz
Vol	Volume
VPRC	volume packed red cells
VT	variable time (fuze)
VTT	Video teletraining
VU	variable update
VULCAT	vulnerability category
VX	nerve agent
w	with
w/o	without
WAATS	Western ARNG/Aviation Training Sites
WB	white bag
WBC	white blood cell
WBGT	wet bulb globe temperature
WCS	Weapon Control Status
WDR	wind direction
WEFT	wings, engine, fuselage, tail section
wet-bulb depression	the difference in degrees between the dry-bulb temperature and the wet-bulb temperature
WGS	World Geographic Coordinate System
WHS	warhead section
WHT	white (LED display)
WIA	Wounded In Action

WLR	weapons-locating radar
WLU	weapons location unit
WMO	World Meteorological Organization
WO	Warrant Officer
WOAC	Warrant Officer Advanced Course
WOBC	Warrant Officer Basic Course
WOCC	Warrant Officer Career Center
WOCS	Warrant Officer Candidate School
WOSC	Warrant Officer Staff College
WOSSC	Warrant Officer Senior Staff Course
WP	white phosphorus
WPN	weapon
WPNS	Weapons
WR	when ready
WSP	wind speed
WSTR	indicates the number of artillery pieces in the battery--one or two numeric characters
wt	weight
WTR	wide temperature range
WWI	World War I
xmit	transmit
XO	executive officer
XRDS	indicates number of rounds impacted or number of craters--three numeric characters
YR	year (LED display)
Z	zulu time (Greenwich Mean Time)
ZF	indicates zone fire command to be transmitted to the gun display units with firing orders
ZONE	zone of responsibility

zone of responsibility The area within the boundaries established for a maneuver force.

Section II

Terms

Camera-ready copy (CRC)

CRCs can be in two forms: paper or electronic. Paper: material that has been composed, edited, illustrated, and properly displayed on illustration boards and is ready for entry into the printing procurement system. Electronic: the computer version of this material provided either on a disk or as a printed copy.

cassette

magnetic tape cartridge containing program or digital map data

Chain of command

The succession of commanding officers from a superior to a subordinate through which command is exercised. Also called command channel.

Chaining

A training technique that uses or transforms a learned response into the stimulus for the next desired response which then becomes the stimulus for the next response and so on to the final desired response. Constructing a test that requires the student to use an answer from an already completed test question in order to arrive at the answer of a different test question. This situation should normally be avoided in testing because missing the initial question can result in missing all other chained questions.

Checklist

A job aid used to determine or ensure a process or procedure is followed. The elements of the activity are listed in the execution sequence. A check is usually placed beside each element as it is accomplished.

Chemical Hazard Area (CHA)

A location on the ground that is considered to be contaminated as a result of employment of chemical weapons.

Class schedule

The schedule of classes (start and end dates) with a start date within a specific FY for a resident Course.

Class training schedule

The schedule of lessons and events for a class attending a resident course. The class training schedule must reflect mandatory lesson sequence established during course design.

Clustering

A process of organizing many tasks or learning objectives into logical groups based on some criteria. Also pertains to sequencing groups of objectives within a course of instruction.

Cognitive learning

A domain of learning that is concerned with knowledge and the various mental activities and processes by which the learner acquires knowledge and mental skills.

Cohesion

In units, the bonding together of soldiers with their leaders in such a way as to sustain their will and commitment to each other, their unit, and the missions.

Collective training

Training, either in institutions or units, that prepares cohesive teams and units to accomplish their missions on the battlefield and in operations other than war.

College Level Examination Program (CLAP)

A series of tests designed to evaluate knowledge gained in nontraditional ways. The College Level Examination Program general examinations test for knowledge which is usually acquired in the first two years of college. The College Level Examination Program subject examinations are comparable to end-of-course examinations and are used to grant exemption from or credit for specific courses.

Collocated school or course

A school or course that is used by one or more services on another service's installation and shares classroom facilities and equipment. Training policies, directives, and materials will be determined by mutual agreement between the services.

Color proof

A composite of all colors represented on a particular map, photomechanically placed on a plastic sheet. A quality control process used in battalion edit or the photomapping platoon, prior to actual reproduction of the map.

Color separation

A phase in the mapmaking process in which a separate negative is produced for each color from a compilation manuscript. This is necessary because a separate plate is required for each color on the offset printing press.

Combat developer

An individual or agency responsible for developing concepts and organizational and equipment requirements.

Combat drill

A collective task done at platoon level and below that is critical to the unit's success in combat.

Combat information

Unrevealed data, gathered by or provided directly to the tactical commander which, due to its highly perishable nature or the criticality of the situation, cannot be processed into tactical intelligence in time to satisfy the user's tactical intelligence requirements.

Combat range complex

A group of multipurpose firing ranges.

Combat readiness

A unit's ability to perform in combat. Includes the status of personnel, logistics, morale, and training.

Combat Training Center (CTC) Program

An Army program established to provide realistic joint service and combined arms training in accordance with Army doctrine. It is designed to provide training units opportunities to increase collective proficiency on the most realistic battlefield available during peacetime. The four components of the CTC Program are --The National Training Center, The Combat Maneuver Training Center, The Joint Readiness Training Center, The Battle Command Training Program.

Combined Arms Integration

The process of ensuring that lower level's training strategies support the next higher level's training strategies (i.e. battalion supports brigade) and maneuver training strategies are supported by other unit strategies.

Combined arms live fire exercise

High-cost, resource-intensive exercises in which player units move or maneuver and employ organic and supporting weapons systems using full service ammunition with attendant integration of all combat, CS, and CSS functions.

Combined arms publications

The third level of the Doctrinal Literature publication hierarchy. They describe tactics and techniques of combined arms forces. These publications focus on sequencing, synchronizing, and coordinating varied capabilities to successfully execute assigned operations. Leaders and soldiers look to combined arms publications for information on the integrated application of varied military forces to execute combat operations.

Combined arms training

Training which focuses on the integration of combat, combat support, and combat service support elements to produce units capable of mission accomplishment on the battlefield.

Combined Arms Training Strategy (CATS)

The Army's overarching strategy for the current and future training of the force. Its basis is a series of branch proponent unit and institutional strategies describing training events, frequencies, and resources required to train to standard. These strategies describe how the Army will train the total force to standard in the institutions and unit and through self development. CATS also documents the quantity, and justification for all training resources required to execute the training. See "Training strategy. "

Combined doctrine

Fundamental principles that guide the employment of forces of two or more nations in coordinated action toward a common objective. It is ratified by participating nations.

Combined training exercise

A training exercise that is conducted by military forces of more than one nation. Sometimes called "multinational training."

Command

A specifically designated linetype organization with direct line authority from the next higher commander or the Chief of Staff, United States Army. It must have a clearly identifiable headquarters and organizational structure composed of a variety of units, agencies, activities, depots, arsenals, or installations. The headquarters of a command may be organized under either table(s) of organization and equipment or tables of distribution and allowances. An organization which is composed of one or relatively few separate TDA/TOE units would not normally be termed a command.

Command Field Exercise (CFX)

See "Exercise."

Command operating budget (COB)

The budget for the current year, budget year, and contains needed outyear data.

Command Post Exercise (CPX)

See "Exercise."

Common collective task

See "Task."

Common core

Formal training of common soldier , common skill level, or shared (i.e., common skill level task shared with one or more other skill levels) critical tasks or their supporting skills and knowledges. See "Common soldier task," and "Common skill level," and "Shared task."

Common core training

Direct training requirement for specific courses, grade levels, or organization levels. It consists of critical tasks performed by individuals at specific grade levels regardless of MOS or career field. Common core tasks are common soldier, common skill level, and organizational level shared tasks.

Common skill level task

See "Task" and "Individual critical task."

Common soldier task

See "Task" and "Individual critical task."

common task

A task which all soldiers in a given skill level must be able to do, regardless of their MOS.

Common task test (CTT)

A formal hands-on test administered by the unit that measures a soldier's proficiency on common critical tasks from the soldiers manual of common tasks.

communications security

Use of communications codes, secure voice equipment and proper radiotelephone procedures in order to avoid disclosing operational information to the enemy.

commutator bar

the part of the baroswitch on which is printed the switch circuit

Competency-based instruction

Training organized around an agreed upon set of competencies and which provides learning experiences designed to lead the attainment of these competencies. Competencies for soldiers are the critical tasks identified for their specific job.

Compilation

The process of drawing a topographic product using existing maps, aerial photography, or other sources of information using either manual techniques or mapping equipment.

Compilation manuscript

The compilation manuscript consists of cultivated vegetation, hydrographic and hypsographic features of a portion of the earth's surface drawn to a selected scale and specification. This is usually performed on drafting film with colored pencils and drafting instruments.

Computer assisted instruction (CAI)

A means of delivery by which a computer is used to actually present the instruction. There must be an interaction between the student and the computer for a lesson to be considered as CAI. See "Interactive Courseware."

Computer based instruction (CBI)

A means of delivery by which a computer is used to enhance, deliver, develop, or manage instruction. Computer Assisted Instruction (CAI), Computer Managed Instruction (CMI), and Computer Supported Instruction (CSI) are subsets of CBI. The DoD accepted term for CBI is Interactive Courseware (ICW). See "Interactive Courseware."

Computer based training (CBT)

Instruction delivered by a computer which includes CAI, CMI as well as computer simulation. Use of computer systems in a primary and/or directed support role in development delivery.

Computer managed instruction (CMI)

Instruction managed by computer, including registration, pretesting, diagnostic counseling, progress testing, post-test, and disenrollment.

computer prompt

interaction of operator and machine based on directions displayed on the computer screen

Computer supported instruction (CSI)

Computers used to develop or enhance classroom training, e.g., conducting task analysis with a database, creating Vugraphs, projecting computer images while conducting a conference type lesson, A sub-set of computer based instruction.

Concept Based Requirement System (CBRS)

The TRADOC process that identifies and prioritizes solutions to battlefield deficiencies. Solutions take the form of doctrine, training, leader development, organization, and materiel. These initiatives serve as triggering circumstances for the needs analysis process.

Condition

Task condition--The task condition describes the field conditions under which the task will be performed. The condition expands on the information in the task title by identifying when, where, and why the soldier performs the task and what materials, personnel, and equipment the soldier must have to perform the task. Learning objective condition--The learning objective condition describes the training situation or environment under which the student must perform the learning action statement. It includes any pertinent influence on learning objective performance, including identification of materials, facilities, and equip-ment the student must have to perform the objective.

Conference

A method of instruction that develops the training material through an instructor-guided student discussion.

Confirmation

The knowledge of results provided students as they learn. The principal underlying confirmation is reinforcement or rewarding of student achievement.

Consequences of inadequate performance

A criterion in selecting critical tasks. The consequences of inadequate performance on certain tasks could result in injury to personnel, loss of life, or damage to equipment.

Constraints

Limiting or restraining conditions or factors such as policy considerations, time limitations, environmental factors, and budgetary and other resource limitations.

Constructed response

An answer requiring recall or completion as opposed to recognition (e.g., drawing a diagram, filling in a form, and labeling the parts of a piece of equipment).

Content Validity

Tests are intended to measure the extent to which students learn the content of the instruction and the extent to which students learn the content of the job. The extent to which the test measures this intent is referred to as content validity. If a test has content validity, it will answer the question: "Did the student learn the content of the instruction/the job?"

Controlled mosaic

A mosaic oriented and scaled to horizontal ground control, it consists of rectified aerial photographs. This is the most accurate type of mosaic except for the orthophoto mosaic.

converter

a device that accepts data in one form and converts it to another

Cook off

Functioning of a chambered round of ammunition, initiated by the heat of the weapon.

coordinated fire line

A line beyond which conventional surface weapons may fire any time without additional coordination.

Correspondence course

A formal, centrally managed, series of self-study, self-paced instructional material prepared by TRADOC service schools; identified by a common course title and course number; and administered to nonresident students. A course may include phases, but usually consists of subcourses presented in a logical, progressively sequenced, and directed toward specific learning objectives.

Correspondence subcourse

The basic element of an Army correspondence course. A subcourse is a self-paced, self-contained block of nonresident instruction consisting of one or more lessons that teach a part of a critical individual task, a single critical task, or a group of related tasks. It includes a practice exercise with feedback for each lesson and an end-of-subcourse test. The subcourse may contain material extracted from Armed Forces publications or other adjunctive materials to support the training. Students receive subcourse(s) as a part of a correspondence course(s). Students may enroll for subcourse on an individual basis, unless otherwise stated by the task training proponent. See "Module."

Cost and operational effectiveness analysis (COEA)

A documented investigation of--Comparative effectiveness of alternate means of meeting a requirement for eliminating or reducing a force or mission deficiency. Validity of the requirement in an approved scenario. Cost of developing, producing, distributing, and sustaining each alternative for a time preceding the combat application.

Cost and training effectiveness analysis (CTEA)

An analysis which compares costs and effectiveness among training alternatives in support of a cost and operational effectiveness analysis. In addition, the cost and training effectiveness analysis is used to support development of systems training devices.

Cost-effectiveness analysis

An analysis which compares costs and effectiveness among alternatives (actions, methods, approaches, equipment, weapon systems, support systems, force combinations, and the like) to accomplish a specific mission or objective.

Counseling

A means of assisting and developing students and subordinates. A leader/instructor counsels subordinates: to praise and reward good performance, to develop teamwork, to inform soldiers on how well or how poorly they are performing, to assist soldiers to reach required standards, to cause soldiers to set personal and professional goals, and to help soldiers resolve personal problems.

Course

A complete series of instructional units (phases, modules and lessons) identified by a common title or number.

Course administrative data

A resident course document that enables recruiting and personnel systems to take action to have students and instructors on station in time for training.

Course Development Plan

See "TD Project Management Plan." Consists of the documents that show the current content of a course (instructional materials, tests, student evaluation plan, etc.) and its developmental history (job analysis, task performance specifications, training strategy, course design, etc.).

Course Documentation

Consists of the documents that show the current content of a course (instructional materials, tests, student evaluation plan, etc.) and its developmental history (job analysis, task performance specifications, training strategy, course design, etc.).

Course Management Plan (CMP)

A document which tells the course manager and instructors how to manage the course.

Course map

A chart that depicts the designed sequence of presentation for a given course., established during course design.

Courseware

An actual instructional package (including content and technique) loaded in a computer, training device, or other instructional delivery system.

Cover

1. The action by land, air, or sea forces to protect by offense, defense, or threat of either or both. 2. Shelter or protection, either natural or artificial. 3. To maintain a continuous receiver watch with transmitter calibrated and available, but not necessarily available for immediate use. 4. Photographs or other recorded images which show a particular area of ground. 5. Keep fighters between force/base and contact designated at distance stated from force/base (e.g., "cover bogey twenty-seven to thirty miles.") 6. Protective guise used by a person, organization, or installation to prevent identification with clandestine activities.

Covert behavior

Behavior that is not directly observable, but may be inferred from overt behavior which is observable.

Credit hour

The measured unit of correspondence course work. The number of credit hours assigned to a subcourse (module) is the estimated time required for an average student to complete the material.

Crew Drill

See "Drill."

Criterion

The standard by which something is measured. In Army training the task or learning objective standard is the measure of soldier/student performance. In test validation, it is the standard against which test instruments are correlated to indicate the accuracy with which they predict human performance in some specific area. In evaluation it is the measure used to determine the adequacy of a product, process, or behavior.

Criterion behavior

Performance required of a student described by the learning objective(s) and measured by the criterion test.

Criterion-referenced grading

A way of grading students in relation to a predetermined standard (go or no-go). The standard is based on job requirements.

Criterion-referenced instruction (CRI)

The instruction aimed at training students to perform established learning objectives to the prescribed standard.

Criterion-referenced test

See "Test"

Critical collective task.

See "Task" and "Collective task."

Critical individual task

See "Task" and "Individual task."

Critical task

See "Task," "Critical collective task," and "Critical individual task."

Critical task selection board

A management device which serves a quality control function in critical task selection. The board reviews the total task inventory and job performance data and recommends tasks for approval to the appropriate authority as critical tasks.

Critical Training Gates

Training events that soldiers and units must perform to standard prior to performing subsequent tasks or events.

Cross training

The systematic training of soldiers on tasks related to another duty position.

cross-training

The opportunity for individuals to train for additional duties within their MOSs.

Cryptomaterial

All material, including documents, devices or equipment that contains crypto information and is essential to the encryption, decryption or authentication of telecommunications.

Cue

A word, situation, or other signal for action. An initiating cue is a signal to begin performing a task or task performance step. An internal cue is a signal to go from one element of a task to another. A terminating cue indicates task completion.

Cueing

Describes a deficiency in a test question where the correct answer can be found or implied from the information found elsewhere in the test..

Curriculum

A course of study. An Army school curriculum consists of the course design, lesson plans, student evaluation plan, tests, course map, all other associated training material, and the program of instruction.

cursor

the runner; a moveable reference; on the plasma display, an underscore (_) indicating where the next character is to be written

DA Form

Department of the Army Form

DA Pam

Department of the Army Pamphlet

Danger close

In artillery and naval gunfire support, information in a call for fire to indicate that friendly forces are within 600 meters of the target.

data

Information in a message.

data base

A collection of information in any form, assembled for a particular future use.

Data item description

Document that provides the only acceptable format for a specific product or deliverable. A list of data item descriptions is in the Defense Acquisition Regulation.

datum

a reference element, such as a line or plane, in reference to which the positions of other elements are determined (see horizontal datum and sealevel datum)

datum, horizontal

in plane surveying, the grid system of reference used for the horizontal control of an area, defined by the easting and northing of one station in the area and the azimuth from this selected station to an adjacent station; this is differentiated from the term "common grid" in that the latter implies a common datum.

datum, sea level

a level surface to which heights are referred; the generally adopted level datum is mean sea level; for tactical surveys, an arbitrary level datum is often assumed, as in the case of some local surveys in which arbitrary level data are often adopted and defined in terms of an assumed elevation for some physical mark (bench mark)

DD Form

Department of the Defense Form

Dead space

1. An area within the maximum range of a weapon, radar, or observer which cannot be covered by fire or observation from a particular position because of intervening obstacles, the nature of the ground, or the characteristics of the trajectory, or the limitations of the pointing capabilities of the weapons. 2. An area or zone which is within range of a radio transmitter, but in which a signal is not received. 3. The volume of space above and around a gun or guided missile system into which it cannot fire because of mechanical or electronic limitations.

Decay rate

The rate at which an individual loses the ability to perform a task or supporting knowledge and skills.

Decision logic chart and table

A guide used to assist in the decision-making process. It represents the input or set of inputs likely to occur for a given situation, and recommends a course of action or, if appropriate, alternative actions. It is also called a decision table.

Decision table

See "Decision logic chart and table."

Decision tree

Graphic representation of the decision-making sequence of a specific activity or operation.

declination

the angular distance from the celestial equator measured along the hour circle of the body; declination is given a positive sign when the body is north of the celestial equator, and it is given a negative sign when south; declination corresponds to latitude to the earth

declination constant

the angular difference between grid north and magnetic north

default value

An entry the FDS automatically places into certain data fields when the operator does not make an entry.

Defense school or course

A school or course used by two or more services or agencies and administered by a service or agency designated as the executive agency. The curriculum is developed under the policy guidance and the approval authority of an element of the Office of the Secretary of Defense.

degree of protection

Describes the type of protection available to enemy personnel in a designated target area.

Demonstration

A method of instruction by which an instructor shows the students how to perform a process or procedure.

density

mass per unit volume

Department of the Army Visual Information Production and Distribu

A program that identifies all Headquarters, Department of the Army, approved development of visual information products.

Design phase

A major phase in the training development process. Determines how to train. Translates analysis data into a blueprint for training. It identifies all resource requirements, training structure, learning objectives, training sequence, student evaluation/graduation requirements, program of instruction.

Development phase

A major phase in the training development process. Converts the design into resident and nonresident training materials, e.g., lesson plans, student handouts, media, etc.

Diagnostic test

An evaluative instrument used to measure performance against a criterion; a test given to define specific areas of weakness or strength in individual skills such as reading, arithmetic, or spelling.

diagnostic tests

A series of tests that the operator can initiate which cause checks to be performed on the BCU hardware.

Difficulty-importance-frequency model

One of several models available for use in selecting tasks for training and training site. Using this model, the proponent identifies those tasks as critical based on the difficulty, importance, and frequency of job task performance.

digital map and digital terrain map

a magnetic tape cassette containing terrain height plotted in UTM coordinates in digital form

Direct fire

Fire directed at a target which is visible to the aimer. Gunfire delivered on a target, using the target itself as a point of aim for either the gun or the director.

Directed requirement

A materiel requirement approved by DCSOPS (DAMO-FD) to meet an urgent need for a materiel system or item of TADSS not documented in an operational requirements document.

Disclosure

The conveying of CMI or CUI through oral or visual means to an authorized representative of a foreign government.

Displaced Equipment Training

Training on how to operate, maintain, and employ on displaced equipment provided to the receiving unit and assigned personnel. See "Displaced Equipment Training Plan (DETP)."

Displaced Equipment Training Plan (DETP)

The plan detailing all training required to support the redistribution of equipment within a MACOM or between MACOMs as a result of a force modernization action. The DETP describes training to be provided when equipment is transferred to units that have not had previous experience on that equipment. TRADOC is responsible for preparation of all DETP for active components. HQ DA DCSOPS is the approving authority for all DETP.

Distance Learning

The application of multiple means and technology to deliver standardized training (individual, collective, self-development) to soldiers and units at the right place and right time.

distance, horizontal

the distance measured in a horizontal plane, as distinguished from a distance measured on a slope; horizontal distance refers primarily to taped distances or to distances reduced to horizontal by computations

Distracter

In testing, incorrect answers to multiple choice or matching type test items.

Distribution plan

A comprehensive list of organizations, activities, and/or units that are scheduled to receive an item of TADSS, less training ammo/munitions, to include the date that the item will be delivered.

Doctrinal and tactical training (DTT)

Training provided to commanders, staffs, leaders, and operators on how to employ a new system. It is a component of both new equipment training (NET) and displaced equipment training. Tactics and techniques are covered through battle drills and situational training exercises which embody the "how to fight" doctrine.

Doctrinal literature

The fundamental principles of doctrine, together with the tactics, techniques, and procedures to implement the doctrinal principles and win on the battlefield. Army doctrinal literature is published in FMs.

Doctrinal Literature Master Plan (DLMP)

A TRADOC regulation that establishes policy and assigns responsibility for writing, coordinating, reviewing, and approving doctrinal literature. It focuses on Army doctrine and the supporting tactics, techniques, and procedures used on the battlefield. However, it also addresses joint doctrine and joint tactics, techniques, and procedures and combined doctrine for which TRADOC is responsible. It includes a doctrinal literature listing of all Army, multiservice, joint, and combined doctrinal publications for future development. It provides a plan for prioritizing doctrinal literature work.

Doctrine

Fundamental principles by which the military forces or elements thereof guide their actions in support of national objectives. It is authoritative but requires judgment in application.

Downlink

A teletraining site that only receives training. The student can see the instructor, but the instructor cannot see the students. The teletraining network is capable of only one-way video over satellite. See "Uplink".

downrange mask

Terrain feature between the launcher and the target area that is high enough to possibly interfere with the trajectory of the rocket.

downwind

the direction toward which the wind is blowing (with the wind)

Drill

A disciplined, repetitious exercise to teach and perfect a skill or procedure. Drills are linked to Mission Training Plans in that they are a method for executing a collective task or task step. There are two types: Battle Drill--A collective action executed in a standard manner throughout the Army by a platoon or smaller element without the application of a deliberate decision making process. The action is vital to success in combat or critical to preserving life. The drill is initiated on a cue, such as an enemy action or simple leader's order, and is a trained response to the given stimulus. It requires minimal leader orders to accomplish and is standard throughout like units in the Army. Crew Drill--A collective action that a crew of a weapon or piece of equipment must perform to use the weapon or equipment successfully in combat or to preserve life. This action is a trained response to a given stimulus such as a simple leader order or the status of the weapon or equipment. It requires minimal leader orders to accomplish and is standard throughout the Army.

Drill Book

Drill books a separate document or appendix in a Mission Training Plan, developed for squads and platoons, or equivalent units. Provides a limited number of DA standard methods (battle drills) for executing selected critical collective tasks.

dry-bulb temperature

the temperature measured by the dry bulb of a psychrometer (ambient air temperature)

east

defines maximum and minimum easting locations of the 100,000-meter grid square

electronic line of sight

the characteristics of intervening terrain which make possible the transmission of a radio wave between two separated components of the electronic distance-measuring equipment systems

elevation

the measure of height with respect to another point on the earth's surface, usually mean sea level (MSL), or station elevation

elevation angle

the angle between the horizon and an object above the horizon measured along the arc which passes through the zenith and the object in question

Embedded training

Training that is provided by capabilities designed to be built into or added onto operational systems to enhance and maintain the skill proficiency necessary to operate and maintain that equipment end item.

Employment

To commit a force in support of an operation plan.

Employment procedures and soldier publications

The fifth level of the Doctrinal Literature publication hierarchy. These address soldiers' duties and specific systems. Doctrinal and training publications in this category address specific MOS, officer career fields, duty positions, and systems. For example, doctrinal or training publications pertaining to the employment of a Patriot Air Defense System are in this category. In addition, any doctrine or training

publication specific to the performance of an occupational specialty or duty position is in this category. Doctrinal publications may also describe a specific system's operation, employment, and maintenance. However, detailed maintenance procedures are published in technical manuals by the materiel developer. Training publications in this category focus on tasks, conditions, and standards performed by individuals. Doctrinal and training publications in this category consist primarily of techniques and procedures.

Enabling learning objective (ELO)

A learning objective that supports the terminal learning objective. It must be learned or accomplished to learn or accomplish the terminal learning objective. It consists of an action, condition, and standard. Enabling objectives are identified when designing the lesson. A terminal learning objective does not have to have enabling objectives, but it may have more than one.

Enabling skills and knowledges

Those skills and knowledges required for the performance of a task performance step. They are identified when conducting task analysis.

End-of-Course Test

A test designed to evaluate students accomplishment of all learning objectives presented in the course.

endpoints

end of projectile trajectory (point of impact or point of air burst)

English-as-a-second-language

Education center program to provide English language instruction to soldiers whose primary language is other than English. Eligibility for instruction is determined through commander's referrals and testing.

Entry level training

Training given on initial entry into the Army which provides an orderly transition from civilian to military life. For enlisted soldiers it includes traditional basic combat training, advanced individual training, one station unit training, or other individual training needed to prepare them for initial duty assignments. Officer entry level training includes MQS I and MQS II (officer basic courses) to prepare them for their first duty assignment. Note: MQS products will be phased out upon replacement by OFS products.

Entry skills

Specific measurable behaviors determined to be basic to learning material presented in the course.

Entry skills test

A pre-test designed to determine if a student already possesses a certain skill or knowledge needed as a prerequisite before undertaking new instruction.

Entry test

A test which contains items based on the objectives that the intended students must have mastered in order to begin the course. Note: the distinction between entry test and entry skill test.

Environmental considerations.

The environment factors, concerns, and regulations that must be taken into account when conducting task analysis, designing training, and/or implementing training.

Estimated time value (ETV)

Estimated manpower hours needed to perform a training development process of develop a product; based on organizational functions measured in the 1983 TRADOC TD Manpower Staffing Standards System (MS-3) study.

Evaluation

Measurement of the demonstrated ability of soldiers or units to perform a task, and supporting skill and knowledge; or learning objective against the established standard.

Evaluation guide

The section of the task summary in a soldier's manual which lists the pass/fail performance measures for evaluating the soldier's performance on the task.

Evaluation phase

A major phase in the training development process that assesses how effectively training objectives are achieved to standard by units and soldiers and how well they can meet job performance and mission requirements. This phase provides feedback to the other phases of the training development process to improve effectiveness and efficiency.

Executive Agent

An organization or member of an organization assigned sole responsibility and delegated authority for specific actions otherwise exercised by a higher level organization or executive.

Exercise

Collective task training designed to develop proficiency and crew teamwork in performing the task to the established standard. It also provides practice for performing supporting individual critical tasks. Exercises may be conducted in units and resident training. Types of exercises are as follows: Command Field Exercise (CFX)--A field training exercise with reduced troop and vehicle density, but with full command and control, and combat service support elements. Command Post Exercise (CPX)--An exercise in which the forces are simulated; may be conducted from garrison locations or between participating headquarters in the unit. Field Training Exercise (FTX)--A scenario driven tactical exercise used to train and evaluate critical collective and supporting individual tasks in a collective environment which simulates the stress, sounds, and wartime conditions. It is conducted in an austere field environment through all weather conditions and during night as well as day. The FTX should guide soldiers through a series of events exposing them to the rigors of duty performance during wartime operations. It combines combat arms, combat support, and combat service support. Live Fire Exercise (LFX)--An exercise designed to allow a unit/team to engage targets with its organic weapons and support. Situational Training Exercise (STX)--A short scenario driven mission-oriented tactical exercise that provides a vehicle to train a group of closely related collective tasks and drills together. Situational training exercises provide preconstructed, bite-sized, short-term exercises that are central to sustainment training for tactical mission proficiency.

Extension course

A course developed by a service school as part of the individual training plan but conducted in locations other than United States Army Training and Doctrine Command service schools or Army training centers.

Extension of control

The act of extending the position and/or elevation of an existing survey control point to a point of unknown position and/or elevation.

Extension training

Individual or collective training which is structured, developed, and supported by the service schools, but normally conducted in other than institutionalized settings.

Extension training materials

Refers to all training products sent by the proponent. This includes Training Extension Course, Army Correspondence Course Program, training devices, simulators, and resident materials sent to units.

Familiarization training

Orientation on a task or group of tasks as a substituted for training. Technically information dissemination, not training.

FD officer (FDO)

DA member designated in writing to oversee and control coordination of specific disclosures of CMI and CUI. FDOs are authorized for appointment to the lowest command level that is the proponent for Army-created, developed, or derived CMI and CUI.

Feedback

Information and data, provided both within and outside the training system, that indicates the efficiency or effectiveness of the system or product. It is the data and information provided to the appropriate training proponent concerning the effectiveness and efficiency of the proponents training products, Also information provided to a student concerning his/her training performance.

field identifier

The name of a field. The field identifier is a protected field.

Field of fire

The area which a weapon or group of weapons may effectively cover with fire from a given position.

Field Training Exercise (FTX)

See "Exercise."

file

A group of related data records (such as a target file).

FIRE

indicates fire upon known point or target number specified; effects computation of firing data

fire support coordination

The planning and executing of fire support so that targets are adequately covered by a suitable weapon or group of weapons.

fire support coordination line

The fire support coordination line is a line beyond which all targets may be attacked without endangering friendly troops. Additional coordination is not required. It cannot be stored in the data base.

fire support coordination measures

Designated portions of the battlefield where actions may or may not be taken. They establish guidelines for firing.

First Unit Equipped (FUE)

This is the date the first user unit receives a new system.

Five military aspects of terrain

The five military aspects of terrain are observation and fire, concealment and cover, obstacles, key terrain, and avenues of approach.

Flow diagram

In training development, a graphic representation of actions or events required to accomplish a task (i.e., lesson development). It is frequently accompanied by a narrative description. The flow diagram provides specific instructions and precise sequencing for accomplishing tasks and goals. In contracts, a flow diagram visually depicts the actions or events required of each participant involved in developing extension training materials. It is frequently accompanied by a narrative description and provides instructions and sequencing for extension training material developers.

Flowchart

A graphic representation of the sequence of a specific activity, operation, or algorithm.

FOOTPR

See Section II, Terms. (This is a database not an acronym.)

FOOTPRINT

The manpower, personnel, and training (MTP) relational database that supports MANPRINT. It is used as an analysis tool, i.e., to develop a MOS MTP profile which can be used in developing a target audience description. Future enhancements to the database will include active, reserve, and national guard data, ODARS critical task data, proponent critical task database, and commissioned and warrant officer and civilian personnel data.

Foreign training

The training of foreign nationals under the provisions of the Foreign Assistance Act of 1961, as amended. This training is also called the Military Assistance Program. It is funded through grants or foreign military sales. It includes resident training, on-the-job training, mobile training team, field training services, and in-country training.

Formal training

Training in an officially designated course conducted or administered according to an appropriate course outline and training program and appropriate training objectives. The course may be resident or nonresident.

Frequency of performance

A statistical rating collected when conducting a job analysis survey that indicates how often a task is performed.

front-end analysis (FEA)

The systematic process of collecting, examining, and synthesizing data concerning collective and individual performance requirements. The process commences with needs analysis and subsequently involves analysis of unit missions, MOS/SC and specific duty assignments, or positions supported by a functional training program. The purpose of FEA is to ensure both the accurate description of collective tasks and duty positions, including the conditions and standards to task performance, and the display of data and information from which decisions regarding the critical training of tasks can be made. The process ends, therefore, with the production of a list of critical tasks and performance measures, and with either a provisional recommendation about training site selection or an initiation of job performance aid analysis.

FSK

frequency shift keying, displays the channel 1 tone indicator--one numeric character (1 = 1200/2400 hertz; 2 = 1300/2100 hertz)

Functional course

A course designed to train soldiers to perform the critical tasks and supporting skills and knowledge required to perform the specialty or functional job. It may provide training which qualifies soldiers for award of an additional skill identifier, special qualifications identifier, or skill identifier.

Gate

A performance requirement that must be satisfied to continue training.

GD

displays the grid declination between grid north and true north in tens of mils--one alphanumeric and two numeric characters

Generic Tasks

A task that is very broad in scope (e.g., Repair an Engine). It is really a summary of individual tasks which share some, but not all of the same task performance specifications. Skills, knowledges, safety hazards, environmental factors, and performance steps can not be adequately identified for a generic task. TRADOC training proponents will not develop or use generic tasks.

Generic Training

Training skills and knowledges that support a number of individual critical tasks rather than the specific tasks themselves.. These skills and knowledges were identified during the task analyses of approved critical tasks.

Geodetic control

A system of horizontal and/or vertical survey control points that have been established and adjusted by geodetic methods in which the shape and size of the earth have been considered.

Go/no-go- -pass or fail

The evaluation criteria whereby students cannot partially pass. They either pass (go: meet the standard) or fail(no-go: do not meet the standard).

Graphic Training Aid (GTA)

A Graphic Training Aid (GTA) provides a means for trainers to conduct and sustain task-based training in lieu of using extensive printed material or an expensive piece of equipment. The uses of GTAs range from quick reference memory aids to simulation games for a battalion.

Group trial

The tryout of a training course on a representative sample of the target population. It is used to gather data on the effectiveness of instruction based on error rates, criterion test performance, and time to complete the course. See "Field test."

Group-paced training

A mode of instruction where soldiers move through a course as a group as they accomplish milestones together. Often the rapid learners may assist slower ones so that they all finish at the same time.

GZ

specifies the location of the lower left corner of the map mod with respect to hemisphere and grid zone; grid zone of target coordinates (+ or - and two numeric characters); indicates grid zone of the observer coordinates--one or two numeric characters; indicates grid zone of the known point--one or two numeric characters; indicates grid zone of the mean point--one or two numeric characters

Halftone

An image in which detail and tone values are represented by a series of evenly spaced dots of varying size and shape.

Hands-on

Student practice of training on actual equipment, simulators, and training aids.

Hard data

Data acquired through precise and accurate measurement.

hardware

General term applied to computer equipment and components.

Hazard

A condition with the potential of causing injury to personnel, damage to equipment or structure, loss of material, or lessening of ability to perform a mission, a task, or a learning objective. Example: A river crossing has hazards that might include water depth and current, hypothermia, fatigue, debris on or under the water, change in conditions caused by weather, and swimming ability of the soldiers, etc.

Hazard Communication

The requirement to inform personnel occupationally exposed to hazardous materials of the potential hazards and their training to prevent chemically related occupational illness and injuries.

Heat condition category three

Category three is a wet bulb globe temperature index of 85 F to 87.9 degree F.

Heuristic

The solution of a problem identified by trial and error, evaluating each step towards a final result.

hide area

Position occupied by the launcher to avoid detection by the enemy. Located in close proximity to designated firing points.

high order digits

The first number in the easting coordinate and the first two or three numbers in the northing coordinate when long coordinates are used.

Holdover

Soldier status referring to those graduates held over at the end of a course for causes such as lack of orders, lack of clearance, medical problems, or judicial proceedings.

Home assignment sheet

A document that describes the home assignments the student must do outside of the normal resident training time. It can be a simple reading assignment, some kind of worksheet, or even a practical assignment where the student must produce a product. Home assignments are subject to testing.

Horizontal Alignment of Tasks

The identification of critical individual tasks that are performed by different ranks serving in the same organization level, e.g., The platoon Sgt and the lieutenant in a platoon, the 1SG and the captain in a company.

Horizontal Alignment of Training

Training is horizontally aligned when tasks selected for training are relevant to duties, responsibilities, and missions assigned to soldiers at a specific organizational level, notwithstanding the rank or status of the individual being trained. For example, an officer, warrant officer, or noncommissioned officer at a given organizational level may primarily perform the task, but other leaders require the same skills and knowledge to assist or supervise task performance.

Horizontal control

The survey control points on which the horizontal coordinates have been determined. The coordinates may be either geographic (latitude and longitude) or grid.

HS (Home Station)

1. The assigned permanent location or assembly point of Reserve or National Guard units, or initial active duty station for individuals reporting separately. 2. This is "phase 3" of the "phases of mobilization."

hygristor

a humidity-sensing element or device; a resistor whose resistance varies according to the amount of humidity in the air

idler station

a backup NAVAID station (in addition to the primary and two secondary stations) that can be substituted for another station if necessary

Immediacy of performance

A statistical rating (task performance data) collected when conducting a job analysis survey that indicates the time between job entry and job performance. A factor that may be used by the critical task selection board.

Implementation

The actual conduct of training by any method of instruction using the validated training materials created during the design and development phases. A major phase in the training development process.

Independent learning

Usually, learning outside the classroom environment. It is similar to learning from homework but should not be confused with individualized instruction.

Independent study

Typically, a special project or assignment of selected readings for students seeking more information on a course topic.

Indirect fire

Fire delivered at a target which cannot be seen by the aimer.

Individual Soldier's Report (ISR)

The initial individual soldier's report (ISR) is a report provided to the soldier after the soldier has taken the self-development test. This report indicates the number of correct answers from the total number of questions for each section of the self development test. The final ISR is a report that provides an SDT score and a percentile ranking.

Individual task

See "Task."

Individual task analysis

The process used to identify the individual task performance specifications. They describe how the task is actually performed, under what conditions it is performed, and how well the individual must perform it. They are the task performance details needed to establish the individual training strategy and to design and develop follow on training. See "Task performance specifications."

Individual training

Training which prepares the soldier to perform specified duties or tasks related to assigned duty position or subsequent duty positions and skill level.

Individual training plan (ITP)

A document prepared for each enlisted military occupational specialty, warrant officer military occupational specialty, commissioned officer specialty code, or separate functional training program that describes the overall plan to satisfy training requirements and document the long range training strategy

Individual training strategies

See "Training strategy."

Individual trial

In lesson-effectiveness testing, the initial tryout of lesson material on soldiers representative of the target population.

Individualized instruction

Instruction that attends to the individual needs of and differences among students. Properly developed individualized instruction is characterized by attending to individual student's training objectives, allowing for individual start times, adjusting for individual entry skill levels, releasing of some time constraints, offering of a choice of learning media, and using criterion-referenced measures of mastery. Mandatory completion criteria including time must be established.

Information sheet

Provide information that is either not available to the student from any other source or presents the information in a much clearer and more condensed form.

Initial operational test and evaluation (IOTE)

Field testing, utilizing typical user personnel, to assess operational effectiveness and suitability of military materiel. This evaluation is completed prior to a decision to commit funds for full production. The tester conducts IOTE under realistic operational conditions during Engineering and Manufacturing Development. IOTE is the new name for operational test.

initialization

the process of entering fixed parameters into the computer for operation

initialization data

data that must be entered into the computer before radar operation such as meteorological data, site data, reference data, and so forth

input queue

A buffer (holding area) where incoming messages are held to wait processing in accordance with an established priority.

Insect vectors

Insects that transmit diseases to man.

Instructional delivery system

A medium or combination of media (including personnel, equipment, and software) used to convey instruction to the student-

Instructional site

A physical location where specific instruction is to be accomplished (i.e., school, unit, job site). Despite semantic preferences, a recognition of basic distinction between form of training (self-study, supervised on-the-job training) and location of training (resident or job site) is important. In this context, site and setting are designations of training location, not training form. In analysis the analyst is concerned with site (location) selection, not training form selection which is the task of the designers and developers. See "Training site selection."

Instructor

Any personnel, military or civilian, who presents instruction.

Instructor and key personnel training (IKPT)

Training provided to instructors and key personnel to facilitate training development of new systems or equipment.

Instructor contact hour (ICH)

The manpower work load factor which represents one instructor work hour devoted to conducting training. The instructor contact hour for each lesson is related to optimum class size and computed by multiplying the number of academic hours times the number of student groups times the number of instructors required per group.

Instructor evaluation

A written evaluation report, provided by qualified observers of an instructor's teaching ability, knowledge, and skill.

Instructor training

The training of selected personnel in the techniques of teaching to qualify them as instructors.

Instrument

In testing and evaluation, a test or measuring device that is used to determine achievement (go/no-go) or the relative standing of an individual or group. Tests, rating forms, and standard interviews are all evaluation instruments.

Integrated logistics support (ILS)

A composite of all the support considerations necessary to ensure the effective and economical support of a "system or item of equipment for its life cycle. The elements of integrated logistics support are design influence, maintenance, manpower and personnel, supply support, support equipment (including test, measurement, and diagnostic equipment), training and training devices, technical data, computer resources support, packaging handling and storage, transportation and transportability, facilities, and standardization and interoperability. (See JCS Pub 1.).

Integrated training

Training of a critical task in a formal course of instruction by integrating or consolidating the proponent-provided TSP material into an existing lesson. The task MAY be one in which the performer has received prior training, i.e., it is best used to sustain/refine previously acquired skills. The training must be applicable to the block of instruction in which it is integrated; trains the task to standard; and evaluates task performance during instruction under conditions prescribed in the TSP.

integration training

The completion of initial entry training in skill level 1 tasks for an individual newly arrived in the unit, but limited specifically to tasks associated with the mission, organization and equipment of the unit to which the individual is assigned. It may be conducted by the unit using training materials supplied by TRADOC, by troop schools, or by in-service or contract mobile training teams. In all cases, this training is supported by TRADOC school proponent.

Intelligence (military)

The product resulting from the collection, processing, integration, analysis, evaluation and interpretation of available information concerning foreign countries or areas.

Interactive courseware (ICW)

The overarching term used to describe any form of multimedia instruction in which a computer is used to enhance, deliver, or develop instruction. Computer-controlled courseware that relies on trainee input to determine the pace, sequence, and selection of content of training delivery. Consists of computer assisted instruction (CAI), interactive videodisc (IVD) courseware, computer managed instruction (CMI), and multimedia courseware. Industry terms commonly used are "computer based instruction" (CBI), "multimedia," and "computer based training" (CBT).

Interactive instruction

Student centered performance oriented training that requires students practice what they learn, receive immediate feedback, and be tested. The priority for interaction is between the student and the equipment/subject matter.

interference

any electrical disturbance from a source external to the equipment that causes undesirable responses in electronic circuits

Interservice school or course

A school or course that presents a curriculum developed and approved by two or more military services to meet the specified training requirements of those services. The school or course is administered by the host service and the faculty may be multiservice.

Interservice Training Review Organization (ITRO)

Group whose major effort is directed toward improving the cost effectiveness of training through voluntary cooperative efforts among the services. Interservice Training Review Organization is guided and directed

through a structure consisting of boards and committees superimposed on the formal organizational structures of the services concerned.

inversion

a layer of the atmosphere where the temperature increases rather than decreases with height

isotherm

a line of constant temperature

Item analysis

The process of determining whether a test item is functioning as intended. Alternatively, the use of results on individual test items to determine effectiveness of the item. It can be used to obtain feedback on training deficiencies, score exceptions, and improve future versions of the test.

job performance test

An instrument used to determine whether or how well an individual can perform a job. See "Performance measure."

Job (or duty)

For training development and training purposes, it is an MOS by skill level; BC by rank; AOC by rank; warrant officer MOS (Military Occupational Specialty) by skill level; ASI (Additional Skill Identifier); SQI (Skill Qualification Identifier); SI (Skill Identifier); LIC (Language Identifier Code); or other special category. Special categories include but are not limited to common tasks (for a specific skill level), additional duty assignments, and civilian jobs the Army is required to train.

Job aid

A checklist, procedural guide, decision table, worksheet, algorithm, or other device used by a soldier as an aid in performing duty position tasks. It gives the soldier directions and signals when to take action. A job aid is also called a job performance aid.

Job analysis

The process used to identify individual critical tasks (including leader tasks) a job incumbent must perform to successfully accomplish his/her mission and duties as well as survive on the battlefield. They are the critical tasks for that job. They may be one of four types --Common soldier tasks; Common skill level tasks; Critical individual tasks; Shared tasks.

Job and Task Analysis Plan

See "TD Project Management Plan."

joint school or course

A school or course, used by two or more services, which has a joint faculty. The director (commandant), who is provided on a rotational basis by the services, is responsible, under the direction of the Joint Chiefs of Staff, for the development and administration of the curriculum.

Joint training

Training in which elements of more than one service of the same nation participate.

Journeyman

A person who has learned a trade and works for another person in that specialty.

Kelvin scale (øK)

an absolute temperature scale with an ice point of 273.16øK and a boiling point of 373.16øK

Key terrain

Any locality, or area, the seizure or retention of which affords a marked advantage to either combatant.

Keystone publication

FM 100-5, Operations. The Army's warfighting and Operations Other Than War (OOTW) manual that conceptualizes and describes the conduct of campaigns, major operations, battles, engagements, and operations other than war. It links the Army's roles and missions and National Military Strategy. It provides the foundation for Army doctrine.

Knowledge

Information or fact required to perform a skill or supported task.

lapse rate

the rate at which temperature changes with altitude

latitude

the angular distance, for a specific spot on the earth's surface, from 0° to 90° north or south of the equator

Leader task

An individual task performed by a leader that is integral to successful performance of a collective task.

Learner characteristics

The traits possessed by learners that could affect their ability to learn, such as reading level and which are included in the target population description.

Learning

A change in the behavior of the learner as a result of experience. The behavior can be physical and overt, or it can be intellectual or attitudinal.

Learning activity

The specific behavior a student performs during a particular episode of learning. See "Learning step."

Learning center

A facility primarily dedicated as a delivery point for individualized or small group multimedia based instruction. Learning centers contain the equipment and training materials needed for training or education.

Learning decay

A decrease of learned skills over a period of time if not practiced frequently. Decay can be retarded by the conduct of sustainment training. See "Decay rate".

Learning difficulty

A statistical rating collected when conducting a job analysis survey. It is an measurement of the time, effort, and assistance required to achieve performance proficiency.

Learning hierarchy

The relationships among objectives in which some objectives must be mastered before others can be learned. We can describe these as independent, dependent, and interdependent training objectives. See "Learning step."

Learning objective (LO)

A statement of what the student is to be capable of accomplish in terms of the expected student performance under specific conditions to accepted standards. Learning objectives clearly and concisely describe student performance required to demonstrate competency in the material being taught. They focus the training development on what needs to be trained and focuses student learning on what needs to be learned. Both terminal and enabling objectives are learning objectives.

Learning process

A series of purposeful activities (events) designed to change a student's ability to perform a task or supporting skill.

Learning step

A student activity that leads toward achievement of a learning objective. Learning steps are determined when the objective is broken down into its component parts. Often an explicit hierarchical relationship consisting of terminal learning objective, enabling learning objective, and learning step is maintained. Learning steps are identified and delineated in the lesson, training support package, or Army Correspondence Course Program outline during the design phase. It should be performance oriented.

Lesson

The basic building block of all training. The level at which training is designed in detail. The lesson is structured to facilitate learning. A lesson normally includes telling or showing the soldiers what to do and how to do it, an opportunity for the soldiers to practice, and providing the soldiers feedback concerning their performance. A lesson may take the form of an instructor presented lesson, a SGI-presented lesson, or a self-paced lesson, such as a correspondence course or CBI lesson. An instructor presented lesson or SGI presented lesson is documented as a lesson plan. A self-paced lesson must be of sufficient detail that the student can learn the material to the established learning objective standard on his own. An extension training lesson is a self paced instructional program developed, reproduced, and packaged for distribution to soldiers in the field. These lessons consist of a terminal learning objective, instructional text, practice, and immediate feedback to the soldier. See "Lesson outline" and "Lesson plan."

lesson outline

An organized outline of the training material to be presented. It identifies the terminal learning objective, enabling learning objectives (optional), learning steps/activities, methods of instruction, media, references, instructor-to-student ratios, resources required, facilities required, safety factors, environmental considerations, and risk factor. The lesson outline is completed during the design phase of the training development process. See "Lesson" and "Lesson plan."

Lesson plan

The detailed blueprint for presenting training by an instructor or small group leader (SGL). It prevents training from becoming haphazard and provides for training standardization. It is built on the lesson outline and includes all the details required for the presentation. It must be of sufficient detail that a new instructor can teach the lesson with no decrement of training. See "Lesson outline" and "Lesson."

Life Cycle Systems Management Model (LCSMM)

Outlines the life cycle of the Army acquisition system from materiel concept investigation, through development and acquisition, until ultimate phase out and disposal. Materiel acquisition may initiate training requirements.

Linear programming

A programming method in which set sequences of frames require a response from the student at each step. The steps are so designed that errors will be minimal for even the slower students in the target population.

Live Fire Exercise (LFX)

See "Exercise."

local NAVAID signals

those NAVAID transmissions received directly at the shelter via the NAVAID whip antenna, rather than indirectly from the radiosonde

Lock-step instruction

A mode of instruction where all soldiers receive the same instructional events in fixed predetermined time periods. Soldiers move through the instruction as a group.

logical subscriber

The unit identification of a subscriber that receives and transmits messages within a system.

Logistics

The science of planning and carrying out the movement and maintenance of forces. In its most comprehensive sense, those aspects of military operations which deal with: a. design development, acquisition, storage, movement, distribution, maintenance, evacuation, and disposition of material; b. movement, evacuation, and hospitalization of personnel; c. acquisition of construction, maintenance, operation, and disposition of facilities; and d. acquisition or furnishing of services.

Logistics support analysis

An analysis of manpower requirements, operator and maintenance quality and skills, personnel training requirements, and training materials requirements.

long coordinates

Coordinates that contain at least six digits for easting and seven for northing.

longitude

the angular distance, for a specific spot on the earth's surface, from 0° to 180° east or west of the meridian of Greenwich, which is used by most nations as the prime or initial meridian

Long-range Training Strategies

See "Training strategy."

LOT

indicates the shell and powder lots to be used

LOTS

indicates shell and powder lots for initial and subsequent volleys in fire for effect; used to select muzzle velocity and registration corrections

magnetic declination

the angle between grid or true north and magnetic north

Maintenance training simulator

A device, usually computer-controlled, that simulates operational equipment and allows trainees to practice maintenance tasks or procedures.

Major system

Acquisition Category I and II programs designated by the Under Secretary of Defense (Acquisition) or the Army Acquisition Executive. The Operational Test and Evaluation Command conducts user tests and evaluation. All systems not designated as Categories I and II are nonmajor (IPR).

mandatory level

one of several constant-pressure levels in the atmosphere for which a complete evaluation of data derived from upper air observations is required; currently, the mandatory pressure levels are at 1,000 mb, 925 mb, 850 mb, 700 mb, 500 mb, 400 mb, 300 mb, 250 mb, 200 mb, 150 mb, 100 mb, 70 mb, 50 mb, 30 mb, 20 mb, 10 mb, 7 mb, 5 mb, 3 mb, 2 mb, and 1 mb

Mandatory release date

Refers to the date at which individual National Guard or United States Army Reserve soldiers must be released from training to return to their home station.

Manpower and Personnel Integration (MANPRINT)

The entire process of integrating manpower, personnel, training, human factors engineering, health hazard assessment, and system safety into a system through the materiel development and acquisition process. It uses analytical models to help soldier-machine systems reach maximum performance. The models help predict manpower, personnel, and training needs by considering human factors engineering, manpower, personnel, training, safety, and health hazards.

manual input

Information received by voice or in written form. It must be entered into the computer by using the keyboard.

Manuscript

A drawn graphic, usually prepared as an overlay to a base map, which shows information to be placed on a map product.

map modification (map mod)

The computer function that maintains coordinates which define the general area of operations. It provides high order digits, grid zone and spheroid for short coordinates entered into the computer.

Mark sense form

Computer readable sheets on which the soldier records identifying information and answers to questions.

Master

In validating training materials or tests, refers to an expert at the particular job or task.

Mastery

Training: The performance of the training objectives within the prescribed conditions and to the stated standard. On the job: Successful task performance without supervision or coaching.

Materiel fielding plan

A document containing detailed system information. This information provides for the detailed planning and actions required for deployment of the system.

MAXRNG

indicates the type munitions being used by the battery and the maximum range of each type; used to process validity checks on range

Mean

Arithmetic average calculated by adding up all scores and dividing by the number of answers.

mean sea level (MSL)

the average height of the sea surface, based upon hourly observation of tide height on the open coast or in adjacent waters which have free access to the sea

mean sea level pressure

station pressure reduced to mean sea level pressure

Measurement errors

Errors which occur due to the unreliability of the measurement process. These errors are random and are never completely absent. In addition, these may be systematic (nonrandom) errors due to some fault in the measurement process.

Media

A means of conveying or delivering information. Examples of training media are paper, film, videotape, broadcast television, computer program.

Medical threat

The medical threat is heat, cold, arthropods and other animals, food borne and water borne diseases, the unfit soldier, noise, toxic chemical (non-NBC), and nonbattle injury.

Mental skill

The active mental processes of identifying, classifying, using rules, and solving problems. Includes thinking, reasoning, analyzing, judging, and inferring functions. See "Skill."

merger training

Training that prepares an NCO to supervise one or more MOSs at a lower SL when the NCO advances a SL in the CMF.

message

A format used to send, receive, and display information. It contains 2 to 13 lines of data.

message segment

Section of a message. Messages which are too long to be displayed on the plasma display are divided into segments.

message skeleton

A message format with only the protected fields displayed. Used by the operator to enter data into the computer.

meteorological datum plane (MDP)

the altitude of the met station from which all met computations are based

meteorological information

information concerned with the phenomena of the atmosphere data pertaining to the atmosphere, especially wind, temperature, and air density, which are used in ballistics

meteorology

the study of the earth's atmosphere

Methods of instruction

A way of presenting instruction to the students. Examples of methods of instruction are conference, demonstration, and practical exercise.

Military occupation specialty

A term used to identify a group of duty positions possessing such close occupational or functional relationship that an optimal degree of interchangeability among persons so classified exists at any given level of skill. Advanced--One which reflects specialized occupational qualifications above the entry military occupational specialty level required for performance in those duty positions which represent the journeyman, supervisory, or leadership levels of skill. Duty--One in which the soldier is actually performing duty. Entry--One which reflects the occupational qualifications required for performance in those duty positions which represent the lowest level of skill within an entry group. Primary--One (entry or advanced) representing the highest or most significant job skill which the individual can best perform. Secondary--Any awarded, other than that designated primary.

Military occupational specialty (MOS) code

A fixed number which indicates a given military occupational specialty. Also known as military occupational number and specification serial number.

Military qualification standards

The system for establishing the standards and responsibilities for the professional development, training, and education of Army officers at appropriate levels/grades in order to execute our warfighting doctrine.

Military Qualification Standards (MQS) Manual

MQS manuals list all common, shared, and branch-specific critical tasks. Officers refer to the MQS manuals to determine critical tasks, professional knowledges, and special emphasis areas required to successfully perform their jobs. These manuals also provide reference courses and job aids to assist in task performance and self-development. They include --MQS I Manual of Common Tasks (Precommissioning Requirements); Provides the basic requirements each individual must meet before commissioning; MQS II Manual of Common Tasks for Lieutenants and Captains; Concentrates on common critical tasks for all company-grade officers; MQS II branch manuals (Lieutenants and Captains); Focus on tasks that qualify the company-grade officers in a given branch; MQS III Leader Development Manual (Majors and Lieutenant Colonels); Provides additional readings to assist field-grade officers. Note: MQS manuals will be phased out upon replacement by OFS products.

Military Qualification Standards I (MQS I)

MQS I prescribes the precommissioning requirements for leader development. It represents the first phase of long-term progressive and sequential leader development system that extends throughout an officer's career. Precommissioning training provides opportunities, including stressful field experiences, to apply knowledge, practice critical basic skills, and evaluate leadership potential. MQS I--precommissioning--applies to United States Military Academy (USMA) and Reserve Officers' Training Corps (ROTC) cadets and Federal and National Guard Officer Candidate School (OCS) officer candidates. The goal of MQS I is to develop cadets and officer candidates skilled in the execution of basic leader tasks prepared for commissioning, and ready to attend an officer basic course (OBC).

Military Qualification Standards II (MQS II)

MQS II--company grade--applies to company grade officers in the Active Army, US Army Reserve, and Army National Guard. The goal of MQS II is to prepare company grade officers to accomplish their wartime tasks and to provide the basis for promotion to major and attendance at Command and Staff College (CSC)--level schooling. MQS II has a military task and knowledge component and a professional military education component similar to that in MQS I. However, the military task and knowledge component for MQS II is organized into common tasks areas, which are essential for all company grade officers, and branch-specific task areas, which apply only to officers in a particular branch. MQS II is discussed in more detail in the MQS II Common Guide and in each branch-specific MQS II guide.

Military Qualification Standards III (MQS III)

MQS III--field grade--will apply to field grade officers throughout the total Army. the goal of MQS III is to prepare field grade officers to execute Army doctrine, to serve on senior staffs, and to attend one of the senior service colleges. Plans are presently underway to develop the MQS III program for field-grade officers.

millibar (mb)

a unit of pressure, convenient for measuring atmospheric pressure, which is equal to a force of 1,000 dynes per square centimeter

MINRNG

indicates the battery minimum range in one to five numeric characters; used to process checks on range

Mission

A series of related tasks that comprise the major capabilities and/or requirements imposed on a unit by its parent organization or table(s) of organization and equipment. Examples: Defend in sector, conduct a hasty attack, and delay. Missions may be imposed to support the parent unit.

Mission analysis

Mission analysis identifies unit organizational and functional structure, develops a mission matrix, derives a mission by echelon list, and identifies critical collective tasks.

Mission essential task list

A compilation of collective mission essential tasks which must be successfully performed if an organization is to accomplish its wartime mission(s).

Mission essential task list (METL)

A compilation of collective mission essential tasks which must be successfully performed if an organization is to accomplish its wartime mission(s).

Mission needs statement (MNS)

A broad statement of mission need for a deficiency which can only be satisfied by a materiel solution. A MNS will be prepared for all Army acquisition programs regardless of acquisition category.

Mission Training Plan (MTP)

A MTP provides comprehensive training and evaluation outlines, and exercise concepts and related training management aids to assist field commanders in the planning and execution of effective unit training. It provides units a clear description of "what" and "how" to train to achieve wartime mission proficiency.

Mobilization

The process by which the Armed Forces are brought to a state of readiness for war or other national emergency. This includes activating all or part of the Reserve Components, and assembling and organizing personnel, supplies, and material.

Modernization Resource Information System (MRIS)

The resource programming process which provides the MACOM with a method of identifying resources required to support a new system.

modulator

that part of the radiosonde that contains the sensing elements and baroswitch

Module

A grouping of lessons in a formal training course. Synonymous with annex and subcourse. A module could be presented by one or more training media/methods or combination thereof.

Mosaic

A mosaic in photogrammetry is the assembly of two or more overlapping aerial photographs whose edges usually have been torn or cut, and matched to form a continuous photographic representation of a portion of the earth's surface. Mosaics are referred to as hasty map products which can be used as map supplements or substitutes. Their information is more current than topographic maps but usually less accurate in scale.

Multimedia

More than one presentation medium. In training the use of more than one medium to convey the content of instruction. Media available for use may include, but need not be limited to, text, programmed instruction, audio tapes, videotapes, slides, films, television, and computers. Multimedia is also an industry term used to define both presentation and training that is delivered via a multimedia workstation/personal computer. It uses text, graphics, digital audio, animation, and up to full motion digital video. Multimedia is delivered via hard disk, floppy disk, or CD-ROM.

Multimedia package

A self-contained instructional unit using more than one presentation medium.

Multiservice doctrine

Fundamental principles that guide the employment of forces of two or three Services of the same nation in coordinated action toward a common objective. Two or three Services ratify it and normally promulgate it in joint service publications that identify the participating services; e.g., Army-Navy doctrine.

Multitrack course

A course which employs more than one track or channel of instruction. Course content, degree of instruction, and presentation may vary to accommodate students with different aptitudes, skill, or knowledges; or resource constraints.

National Training Center (NTC)

The Fort Irwin training center that provides a heavy combat battalion task force 2 weeks of intensive combat training on a rotational basis.

Needs Analysis

The process used to identify valid --Non-training solutions to the performance deficiency; Training solutions to identified unit and individual performance deficiencies; Training development requirements. A training/training development requirement is established if the needs analysis results in the identification and implementation approval for a solution that justifies producing or revising training or training products. Proponents will develop or revise training or training products only when based upon a needs analysis to avoid unnecessary TD workload.

Negative engraving

The most common way that color separation is accomplished. It requires the use of scribecoat, which is a thin piece of clear film (24 by 30 by .007 inches) covered on one side with an opaque coating. This coating is removed with engraving tools called "scribers," creating a negative. Another material used is peelcoat which is much like scribecoat. However, the coating is removed with stencil knives. Scribecoat is used for line work and peelcoat for larger open areas such as water and vegetation areas. This task is performed on light tables.

New equipment training (NET)

An initial transfer of knowledge, gained during equipment development, from the materiel developer/provider to the trainer, user, supporter.

New equipment training plan (NETP)

A document which outlines milestones and other key data elements for training to support new equipment training.

Non performer

An individual who cannot meet a specified performance standard for a designated task or a terminal learning objective.

Nondevelopmental items (NDI)

Systems or training devices available off-the-shelf

Non-Resident School

A location other than the soldier's unit and the resident school. Function as an extension of the proponent school. Soldiers can be full-time or part-time students. Non-resident schools includes the Reserve Component Training Institution

Nonstandard products

Topographic products tailored for a particular purpose or for a particular use, usually not prepared to a standard specification. These products may or may not be assigned a stock number and incorporated into the map distribution system, depending on their anticipated use.

Nonsystem training device

See "Training device."

Non-training solution

A solution to an identified performance deficiency other than training.

Norm-referenced test

See "Test."

Objective test

A test whose scoring requires no human judgment.

Objectivity

In testing, the degree to which a test is scored the same by two or more scorers acting independently.

Observation interview

A dialogue wherein a job holder is observed in the job environment performing all or a substantial part of the job. The jobholder performs the job while the analyst asks questions.

Obstacles

1. Any obstruction that stops, delays, or diverts movement. Obstacles may be natural: Deserts, rivers, swamps, or mountains; or they may be artificial: Barbed wire entanglements, pits, concrete or metal antimechanized traps, and they may be issued ready made or they may be constructed in the field. 2. A definable terrain feature that inhibits intervisibility or movement.

Occupational Data, Analysis, Requirements and Structure Program (O

A comprehensive system for collecting, processing, storing, and analyzing training and occupational information provided by job incumbents and their supervisors through the administration of survey questionnaires. ODARS provides imperial data for identifying individual critical tasks to training proponents.

Occupational survey

A system of collecting detailed military training and occupational information using computer processing, retrieval, and analysis.

Officer Foundation Standards (OFS) System

A system that standardizes officer institutional training and provides a tool for use by commanders and individual officers. It supports officer training and leader development. Training products are distributed electronically.

offset

the difference in distance and azimuth from an observation point to the point of release of a sounding or pilot balloon

Omega

a long-range US Navy navigation system giving worldwide coverage with six to ten ground stations; the frequencies employed are 10.2, 11.3, and 13.6 kHz

One-station unit training (OSUT)

Initial entry training conducted at one installation in one unit with the same cadre and one program of instruction.

One-way Video

A satellite based teletraining system broadcasting from a studio facility. Students are able to see the instructor, but the instructor cannot see the students. Two-way audio is usually provided via telephone lines. See "Two-way Video."

Operating tempo (OPTEMPO)

The annual operating miles/hours for systems in a particular unit required to execute the commander's training strategy. It is stated in terms of the miles/hours for the major system in a unit; however, all equipment generating significant operating and support cost has an established operating tempo.

Operational requirements document

A formatted statement containing performance (operational effectiveness and suitability) and related operational parameters for the proposed system. The operational requirements document will be initially prepared during Phase 0 "Concept Exploration and Definition". It will be updated during Phase 1, "Demonstration and Validation."

operational testing (OT)

testing and evaluation of materiel systems that are accomplished with typical user-operator, crews, or units in as realistic an operational environment as possible to provide data to estimate the military utility, operational effectiveness, and suitability of new systems; the need for modification of the system; the adequacy of doctrine, organization, operating techniques, tactics, and training for employment of the system; the adequacy of maintenance support for the system; and, when appropriate, its performance in a countermeasures environment

Operations order

A directive, usually formal, issued by a commander to subordinate commanders for the purpose of effecting the coordinated execution of an operation.

Operations Other Than War

Military activities during peacetime and conflict that do not necessarily involve armed clashes between two organized forces.

optional entry

Describes a data field that does not require an operator entry.

Orthophotomap

A photomap constructed of orthophotographs (photographs in which the displacements of images due to tilt and relief have been removed). This is the most accurate photomap.

Overlay

A transparent film, drafting film, or tracing paper with specific data portrayed. Overlays are used in the compilation phase of the mapmaking process or may be an end product used to overlay an existing map or map product.

Overlearning

Practice beyond what is required for retention. This is also referred to as overtraining.

Overprint

The new information printed upon a map, usually in purple, to show data of importance or special use, in addition to that originally printed.

Overt behavior

Behavior which is observable and measurable. See "Covert behavior."

parallax

an apparent change in the direction of an object, caused by a change in observational position that provides a new line of sight; when the reticle focus and the objective focus of a theodolite are not in conjunction with each other in relation to the object

parallax correction

the difference in altitude of a celestial body as seen from the center of the earth and from a point on the surface of the earth; there is no apparent parallax of the fixed stars, but that of the sun and planets is measurable; parallax makes the body appear lower than it actually is; therefore, the correction is added

parameter

a quantity to which arbitrary values may be assigned, such as temperature, density, or pressure values

Peelcoat

See Negative engraving.

Peer training

A form of instruction in which students at the same or more advanced level of knowledge provide instruction to other students at the same or lower level of knowledge on the specific objectives.

Performance checklist

The breakdown of an objective into elements that must be correctly performed to determine whether each student satisfactorily meets the performance standards described in the learning objective.

Performance deficiency

The inability of a unit or individual to perform the required tasks to the established standard.

Performance evaluation

A process of data collection and analysis to determine the success of students on learning to perform a specific learning objective, individual, or collective task to the established standard as a result of a training program.

Performance measures

The actions that can be objectively observed and measured to determine if a task performer has performed the task to the prescribed standard. These measures are derived from the task performance steps during task analysis. See "Task performance specifications."

performance measures (PM)

those behaviors/product characteristics which the trainer observes/checks to determine if the soldier has performed the task correctly

Performance oriented training

Training in which learning is accomplished through performance or the actual doing of the tasks or supporting learning objectives under specific conditions until an established standard is met.

Performance step

A single discrete operation, movement, or action that comprises part of a task.

Performance test

An evaluation of the actual performance of the task or learning objective using the conditions under which it will be performed and the absolute standards for acceptable performance.

Performance-based instruction

Instruction which develops student performance proficiency via task-based learning objectives written with an action verb. Students prove competency by actual performance of the objectives to the established standards.

Performance-oriented training

Training in which learning is accomplished through performance or the actual doing of the tasks under specified conditions until an established standard is met. Hands-on training consisting of a skill demonstrating phase, a skills practice phase, and a skill evaluation phase.

Phase

A major part of a training course which may be trained at different locations. It contains one or more modules. See "Phased training."

Phased training

Training that has been compartmentalized into distinct phases to enhance training. Distance learning phases may conserve resources.

Photocomposing machine

This machine is used to prepare type (printed matter) appearing on a map. The type is made on photographic film which is placed on an overlay to the map features and marginal data format.

Photogrammetry

The process of making precise measurements and plotting features accurately by use of aerial photography and stereoplotters.

Photomap

A map substitute or supplement consisting of an aerial photo mosaic to which a grid, marginal information, contours, place names, and other data may be added.

Photomechanical

A reproduction process combining photographic and mechanical operations.

pilot balloon (PIBAL)

a small balloon whose ascent is followed by a theodolite in order to obtain data for the computation of the speed and direction of winds in the upper air

Pipeline

The total time involved in training personnel once they are designated as trainees, including time traveling to the training activity, time awaiting instruction, time of training, and time from termination of training until reporting to the ultimate duty station. It may include more than one training activity.

Planning, Programming, Budgeting, and Execution System (PPBES)

A system that provides key decision points for training development managers when dealing with manpower and dollars. An integrated system for the establishment, maintenance, and revision of the Five Year Program and the DoD Budget. The DCST, HQ TRADOC, is responsible for resourcing training.

PLOT

indicates the following powder characteristics: the model number of the powder, the powder log designator, and the quantity of powder in cans

Pocket stereoscope

A binocular optical instrument for helping an observer to view aerial photographs as three-dimensional models. This instrument is used in map revision and terrain analysis.

Point Positioning Data Base (PPDB)

A set of materials consisting of aerial photography (for which the exact position of the camera in a reference system is known) and a data tape (containing the camera station reference system information). Both are used in the APPS to extract ground positions in UTM or geographic coordinates.

POLAR

displays if firing sections are located by polar coordinates; reports the azimuth, slant range, and vertical angle

Population

A well defined group of subjects or things from which measurements are taken (e.g., all students 6 feet or taller).

position determining system

Part of the on board fire control system inside the launcher. It provides continuous position location data to the launcher FCS.

Posttest

A test administered after the completion of instruction to determine whether a student has mastered the objectives to the established standard. See "Pretest."

power source

an engine driven generator or commercial power

Practical exercise (PE)

The practical exercise is the hands-on application of the performance required in enabling or terminal learning objectives. Gives the student the opportunity to acquire and practice skills, knowledges, and the behaviors necessary to perform the training objective successfully.

Practical exercise/laboratory sheets

A proponent produced document that describes the practical exercise that the student is to perform. It provides student guidance for exercise performance.

Practice effect

The influence of previous experience in taking a test for the second time or more. Familiarity with directions, types of items, and questions when taking the test again usually helps the examinee to score higher. Practice effect is greatest when the time interval between the test and retest is short and when the same form of the test is administered.

Predictive Validity

The extent to which the test predicts how well students will actually perform on the job. If a test has predictive validity it will answer the question: "Will the students be able to perform on the job?" It involves administration of the test and comparison of the test results to other indicators of student performance capability.

Preparing agency

A TRADOC school, integrating center, or staff element or a non-TRADOC agency (under MOA/MOU) that writes and coordinates ADTL within its area of responsibility.

Prerequisite training

That training which personnel must have successfully completed in order to be qualified for entry into training for which they are now being considered.

Pretest

A test administered prior to instruction to determine how much the student knows and to determine if the student needs to take this particular instruction. See "Posttest."

primary station

the NAVAID radio transmitter to which the emissions of the other stations of the group are referenced

Printer's dummy.

A designed page-by-page prototype of a publication showing margins, areas of type, illustrations, readings and captions, and suggested colors.

priority zone

a defined region in which weapons locations are processed on a priority basis

Probability of deficient performance

Tasks selection criterion which ensures that training is given in those essential job skills in which job incumbents frequently perform poorly. This training identifies those tasks which are easier to bungle or are more difficult to accomplish.

Procedural task

A task for which a set of procedures has been published to produce the desired results. The procedures may be either a single fixed array (linear) or a set of alternatives on the contingencies encountered (branching).

Procedure

A standard and detailed course of action that describes how to perform a task.

Process standard

A standard for a task which consists of a series of steps resulting in the soldier obtaining a single result. The task is evaluated by observing the process and by scoring each step or element as it is performed in terms, of sequence, completeness, accuracy, or speed (such as, put on the protective mask or take oral temperature).

Product standard

A standard for a task which terminates in a product or outcome which is observable and measurable, The task is evaluated by looking at the product or outcome in terms of completeness, accuracy, tolerance, clarity, error, or quantity.

Professional development course

A course designed to prepare commissioned officers, warrant officers, or noncommissioned officers to effectively perform the duties required in assignments of progressively greater responsibility.

Proficiency

Ability to perform a specific behavior (task, learning objective) to the established performance standard in order to demonstrate mastery of the behavior.

program

All of the coded instructions required to solve a specific problem on a computer.

Program Budget Guidance (PBG)

Guidance issued by HQ DA three times a year, generally January, May, and October. It outlines the Major Commands' (MACOMs) anticipated resources for both dollars and manpower by Army Management Structure Code (AMSCO) and Management Decision Package (MDEP).

program loading

Transferring the software program from the tape transport unit to the memory of the computer.

Program of instruction (POI)

The program of instruction is a requirements document that provides a general description of course content, duration of instruction, types of instruction, and it lists resources required to conduct peacetime and mobilization training in an institutional setting. See TRADOC Reg 351-1.

Programmed instruction

Self-paced training, usually printed, with frames of information and questions organized so the choices direct the student to remedial frames or advanced material, as appropriate. The material is carefully sequenced and validated to ensure the target population can perform the learning objectives to the established standard.

Programmed training

The training of a critical task (forwarded to non-proponent schools as a training support package [TSP] by including the TSP in a formal course of instruction as a stand-alone lesson with a separate lesson number (Program of Instruction [POI] file number) and specific learning objectives. It is conducted in a structured manner; trained to standard; essential as it serves as the foundation for other training in the course; a qualification training requirement; and evaluated during instruction. It may require use of specific equipment.

Progressive training

Training which is sequenced to require increased levels of performance proficiency.

Project Management Plan

The training development project management plan is the proponent plan for developing training for a single, resourced, TD requirement, such as development or revision of resident and nonresident courses, analyses, doctrine literature, and strategies/plans. is based on a valid TD requirement identified during needs analysis or training design strategy development; details the personnel, milestones, costs, material, TDY and all other factors required to develop the training; is for internal use, and can vary in details and complexity, depending on the training development project. This plan can be simple, unwritten (i.e., the project requirements exist but are not formalized in a report) or complex, very detailed, and may even include a Memorandum of Understanding. Examples: Course Development Plan; A type of TD Project Management Plan which details the proponent plan for designing and developing a course. It may include projected timelines as well as time, personnel, and TDY resource requirements. Job and Task Analysis Plan -- Type of TD Project Management Plan which details the proponent plan for conducting a job and task analysis. It may include projected timelines; time, personnel, and TDY resource requirements; and data collection strategies.

Prompt

A word or other signal that initiates or guides behavior - a cue.

Proponency publications

The fourth level of the publication hierarchy. They describe doctrinal principles, tactics, techniques, and collective training tasks for branch-oriented or functional units. These units are concerned with performing specific activities on the battlefield. For example, proponency publications on air defense units focus on the principles, tactics, techniques, and collective training tasks associated with performing air defense functions. Soldiers or trainers read proponency publications to find the principles by which a branch or functional unit operates, the tactics and techniques used to fulfill its role on the battlefield, and the collective tasks for training.

Proponent agency

An Army organization or staff that has been assigned primary responsibility for materiel or subject matter experts in its area of interest.

Proponent school

The TRADOC school designated by the CG, TRADOC, to exercise supervisory management of all combat/training development aspects of a materiel system. See "Training proponent."

Proponent Training Development Plan

See "Training Development Plan."

protected field

Data field in a message format that is filled in the computer. The operator cannot make an entry in this field.

Publication hierarchy

A five level structural representation of doctrinal and training publications designed to help trainers and soldiers identify the publication most relevant to their needs. This hierarchy serves the doctrinal and training literature managers, developers, and users of these publications. See "Keystone publication," "Capstone publications," "Combined arms publications," "Proponency publications," "Employment procedures," and "Soldier publications."

Qualitative and Quantitative Personnel Requirement Information (QQ)

A document that provides information concerning numbers and qualifications of personnel involved in the use, maintenance, and transport of equipment or systems. Where appropriate, it also describes the personnel duties, MOS/skill levels, specialty code, and organization.

Quality control indicators

Checkpoints used to ensure the quality of each step of a process or function.

radio direction finder (RDF)

a technique in which a radio receiving set together with its associated equipment is used to determine the direction from which a radio signal is transmitted by tracking the signal

Rank order

The relative standing of an individual on a given trait with reference to other members of the group.

Example: When all members of a group of 10 are arranged in order from lowest to highest, the number 1 may be assigned to the one who stands highest, 10 to the lowest.

RARP

record as registration point; affects storage of did-hit data, computation of registration corrections, and compilation of a GFT message for operator review

RAT

entry indicates whether originating agency wants the target to be recorded as a target or as a known point

RATI

record as time registration point; affects storage of did-hit data, computation of registration corrections, and compilation of a GFT message for operator review

Rating scale

A measurement device in which a rater must choose a response from choices arranged in a continuum such as from low to high or good to bad.

rawinsonde (radio wind sounding)

a method of upper air observation consisting of the evaluation of winds, temperature, pressure, and relative humidity aloft by means of a balloonborne radiosonde tracked by a radio direction finder

Reading grade level (individual)

A number representing a person's ability to read and comprehend. This number is equated to the school grade level at which a student should be capable of reading and comprehending written matter. For example, a reading, grade level of 7 is representative of an individual being able to read and comprehend subject matter written at the seventh grade level. A sample of the individual's vocabulary is used to assess reading grade level. The assignment of a school grade level to the complexity of reading materials. Formulas used to calculate reading grade level are usually based on length of words and sentences.

Reclassification training

A soldier may be reclassified into a new job due to organizational restructure, mission or new/revised systems, etc. Reclassification training is training provided to those individuals which qualifies them to perform in a newly assigned job (MOS, AOC, etc.).

Rectifier

This is a precise, autofocus, vertical photoenlarger which permits the correction for distortion in vertical aerial photography due to tip and tilt of the taking aircraft.

Reflecting projector

An instrument which is used to project the image of photographs, maps or other graphics onto a copying table. The scale of the projected image can be varied by raising or lowering the projector or copyboard depending on the model. There are some reflecting projectors with tilting copyboards which compensate for tip and tilt distortion in aerial photographs. This instrument is used in map revision.

refraction

the refraction of a celestial body is the apparent displacement of the body caused by the bending of light rays passing through layers of air of varying density; the celestial body will appear higher than it really is; therefore, the correction is subtracted; a simple example of refraction can be noted by placing a spoon in a glass half full of water

Refresher training

Used to reinforce previous training and/or sustain/regain previously acquired skills and knowledge. The training --Is related to course-specific training objectives, performed under prescribed conditions, and must meet prescribed performance standards. May take place in a course during or outside of POI time. Usually takes place in the unit to sustain or retrain a previously required proficiency level; may be trained to prepare an individual for institutional training, i.e., meet prerequisite training requirements.

Regional Coordinating Element (RCE)

The TRADOC office in the CONUS subgeographical region that coordinates Army training instructors, students, training devices, equipment, and facilities for Reserve Component individual soldier training.

registration point

a point in the target area, the location of which is known on the ground and on the firing chart, and on which a precision registration is conducted to obtain firing data corrections

rejection limit

when used in a field artillery survey, refers to a maximum allowable deviation from a mean value of two or more angular measurements

relative humidity

the ratio of the actual vapor pressure of the air to the saturation vapor pressure, usually expressed in percent

Release form

The form used to obtain written permission for use of copyrighted materials or pictures taken of persons.

Reliability

The extent to which the test/test item gives consistent results each time it is used (has reliability). Any time a test item is examined for validity, it must also be examined for reliability.

Remedial instruction

Special instruction designed and delivered to alleviate deficiencies in the achievement of some of the learning objectives of an instructional program.

Request for proposal

A request for industry to submit a written proposal to support the development and production of a system. The document provides a description of what the Army is procuring.

Reserve Component Course Configuration (RC3) Program

A program that provides RC resident exportable training courses designed for use by RC training institutions as formal instruction. The program includes enlisted, warrant, and commissioned officer training. RC training institutions function as extensions of the TRADOC proponent school. RC training institutions include the Army National Guard (ARNG) academies, Reserve Forces (RF) schools, Reserve Forces Intelligence (RFI) schools, and Regional Training Sites - Intelligence. In addition, the program provides --Sustainment and transition courses for presentation in regional training sites-maintenance (RTS-M). Institutional quality resident training programs and supporting materials for Reserve Forces schools conducting annual training at TRADOC school locations.

Resident school

A training location other than the soldier's unit where the soldier is a full-time student. Resident schools include noncommissioned officer academies; service schools; training centers; and Total Army School System (TASS) schools (battalions), an extension of TRADOC proponent schools.

Resident Training course

Training presented to students usually in a formal training environment by trained instructors. The training may be presented by conventional methods such as conference, by advanced technology such as computers, by distributed training methods, or could involve a combination of methods.

Resource management

The control of the identification, acquisition, and use of training development and training resources to obtain maximum and timely training efficiency.

Response

Any activity which is induced by a stimulus. In instruction, it designates a wide variety of behavior which may involve a single word, selection among alternatives (multiple choice), the solution of a complex problem, the manipulation of buttons or keys, etc.

restitution point

a point identifiable on a photograph whose chart location is known and which is used to transfer (restitute) other points from the photograph to the firing chart; the chart location of these points may be determined by inspection or by survey

restrictive fire area (RFA)

An area in which specific restrictions are imposed. Fires that exceed those restrictions will not be delivered into the area without coordination.

restrictive fire line (RFL)

A line beyond which specific restrictions are imposed. Fires that exceed those restrictions will not be delivered beyond the line without coordination.

Retired Reserve

Consists of those individuals whose names are placed on the Reserve Retired list by proper authority in accordance with law or regulations. Members of the Retired Reserve may, if qualified, be ordered to active duty involuntarily in time of war or national emergency declared by the Congress, or when otherwise declared by the Congress, or when otherwise authorized by law, and then only when it is determined by the Secretary of the Army that adequate numbers of qualified individuals in the required categories are not readily available in the Ready Reserve or in an active status in the Standby Reserve.

revolution

the turning of a body about an exterior point or axis; the earth revolves about the sun on a 600-million-mile orbit at a speed of about 18.5 miles per second; in practical astronomy, it is assumed that the earth is stationary and the celestial bodies move about it from east to west on the celestial sphere

Richards split stage light table

This equipment allows for simultaneous viewing of various inputs (photos and maps) in superimposition. Used mainly for locating existing control, selecting and plotting of supplementary control, and feature identification on aerial photography.

Risk assessment

The process used to identify potential hazard associated with training, set values on the risk elements, compare risks against training benefits, and eliminate unnecessary risks. It is an expression of potential loss in terms of hazard severity, accident probability, and exposure to hazard.

Risk assessment code

A code, representing the risk assessment output, assigned to training products such as lessons and mission training plan.

Safety-in-training

The integration of safety requirements and risk management into the training development process. It involves hazard (risk exposure) identification and prevention (risk control techniques) into individual training products, e.g., lesson plans, STPs, and TSPs.

Sample

A limited number of observations out of the entire population for use in making inferences about the population (e.g., all soldiers at Fort Monroe would represent a sample, though not random, of all soldiers Army wide).

Searching fire

Fire distributed in depth by successive changes in the elevation of a gun. Sectors of fire. An area which is required to be covered by fire by an individual, a weapon, or a unit.

self-development

Self-development is a planned, progressive, and sequential program followed by leaders to enhance and sustain their military competencies. Self-development consists of individual study, research, professional reading, practice, and self-assessment.

Sequencing

In training design, the proper ordering of instruction which allows the student to make the transition from one skill or body of knowledge to another and assures that supporting skills and knowledge are acquired before dependent performances are introduced,

Sequential training

The ordering of training so that the learning of new or more complex skills/knowledge is built on and reinforces previously learned material. See "Sequencing."

set

(one set, two sets, etc.) used in reference to astronomic observations of a celestial body; one set consists of the field data that result from the observation of a celestial body with the telescope of the observing instrument, first in the direct position, then in the reverse position

SHAJ

indicates shell in adjustment; used during adjust phase computations; indicates shell category to which registration corrections apply

Shift

1. In radar, the ability to move the origin or a radial display away from the center of the cathode ray tube. 2. The transfer of fire from one target to another. 3. To transfer fire from one target to another. 4. The deflection difference from one designated point to another, used when opening or closing the sheaf of field artillery or mortar units.

significant level

a level (other than a mandatory level) in the atmosphere usually selected as the result of a change in the rate of change of temperature or humidity with height; the location of the points of evaluation of the radiosonde recorder record

Simulation

Any representation or imitation of reality. Simulating part of a system, simulating the operation of a system, and simulating the environment in which a system will operate are three common types.

Simulator

A training device which substitutes for, by emulation, the functions and environment of actual process, equipment, or systems. Any training device, machine, or apparatus that reproduces a desired set of conditions synthetically. Specifically for training, a relatively complete item or training equipment, using electronic/mechanical means to reproduce conditions necessary for an individual, or a crew to practice operational tasks in accordance with training objectives. It represents the operational equipment physically and functionally to varying degrees and follows the mathematical equations which describe performance.

Skill

The ability to perform a job related activity which contributes to the effective performance of a task performance step.

Skill level

Identifies task proficiency, or ability typically required for successful performance at the grade with which the skill level is associated. The skill levels by grade are shown below: Skill levels => 1 2 3 4 5; Enlisted E 1/2, 3/4, 5, 6, 7, 8/9; Warrant W, 1/2, 3, 4, 5; Officers O 1/2, 3, 4, 5, 6

Skill retention model

A model which provides a numerical score for an individual task used in predicting retention on that task. Of value for determining sustainment training requirements.

slope distance

the straight line distance between two points of unequal height; normal usage is associated with electronic distance-measuring equipment (do not use slant distance.)

Small group instruction (SGI)

A means of delivering training which places the responsibility for learning on the soldier through participation in small groups led by small group leaders who serve as role models throughout the course. SGI uses small group processes, methods, and techniques to stimulate learning.

Small group leader (SGL)

An instructor who facilitates role modeling, counseling, coaching, learning, and team building in SGI.

Small group trial

In training development, the determination of the effectiveness of lesson material based on performance of a small representative sample (three to five) of soldiers from the target population.

SMMP joint working group

Commonly referred to as the MANPRINT Joint Working Group (MJWG), this organization manages the MANPRINT issues during the materiel acquisition process. MJWG also provides oversight to ensure accomplishment of the MANPRINT process.

Soft data

Data obtained with test instruments having low reliability, such as attitude and opinion surveys. See "Hard data."

Soldier Manual of Common Tasks (SMCT)

A document which contains the critical tasks which every soldier must be able to perform in order to fight and win on the battlefield. It provides the conditions, standards, and performance measures for each common soldier critical task.

Soldier training publication (STP)

Publications that contain critical tasks and other training information used to train soldiers and serve to standardize individual training for the whole Army; provide information and guidance in conducting individual training in the unit; and aid the soldier, officer, noncommissioned officer (NCO), and

commander in training critical tasks. They consist of Soldier's Manuals, Trainer's Guides, Military Qualification Standards Manuals, and Officer Foundations Standards System manuals.

Soldierization

The process by which an initial entry soldier's appearance, behavior, values, attitudes, and standards become consistent with the those of the Army and the individual gains the degree of technical competency necessary to make a meaningful contribution to the organization's efforts to meet collective goals and objectives.

Soldiers manual (SM)

List critical task summaries for a specific MOS and skill level (SL); provide conditions, standards, and performance measures for each critical task.; and are the base documents for all MOS-specific individual task training and evaluation.

special qualification identifier (SQI)

(warrant officers and enlisted only) an identification of skills in addition to those of an MOS to identify special requirements of certain positions and special qualifications of personnel who are capable of filling such positions (SQIs are authorized for use with any MOS unless otherwise specified.)

Specialty qualification indicator

An identification of warrant officer or enlisted skill in addition to those of a military occupational specialty used to identify the positions and personnel with those special requirements or qualifications. Special qualification indicators are authorized for most military occupational specialties.

Specification

A contractual document which clearly and accurately describes the technical requirements for items, materials, or services and the procedures used to determine that the requirements have been met.

Specifications

Rules, regulations, symbology, and a comprehensive set of standards which have been established for a particular map or group of maps. Specifications vary with the scale and purpose of the product.

SPHERE

identifies the spheroid for battery location--one numeric character; indicates spheroid of the known point--one numeric character; spheroid in which the mean point occurs--one numeric character; indicates spheroid code of the observer's coordinates--one numeric character; indicates spheroid code of the target coordinates--one numeric character

Standard

A statement which establishes a criteria for how well a task or learning objective must be performed. The standard specifies how well, completely, or accurately a process must be performed or product produced. The task standard reflects task performance requirements on the job. The learning objective standard reflects the standard that must be achieved in the formal learning environment.

Standard product

A topographic product made to a standard specification and included in the Defense Mapping Agency list of approved products and services. Standard products are available through the DOD Map Distribution System.

Standardization

As applicable to Army training means -- The development and implementation of performance standards which the Army employs in training and in combat. Units and soldiers performing the same task will be trained to perform that task to the same standard. Training products are produced in one format by the training proponent and used by other training activities.

Standby reserve

Those units and members of the Reserve Components (other than those in the Ready Reserve or Retired Reserve) who are liable for active duty only as provided in 10 U.S.C. 273, 672 and 674. 1. active status, standby reserve--Reservists who (a) are completing their statutory military service obligation, or (b) are being retained in an active status under 10 U.S.C. 1006, or (c) were screened from the Ready Reserve as being key personnel and request assignment to the Active Status List, or (d) may be temporarily assigned to the Standby Reserve for hardship or other cogent reason determined by the Secretary concerned, with the expectation of their being returned to the Ready Reserve. 2. inactive status, standby reserve--Individuals who are not required by law or regulation to remain members of an active status program but who (a) desire to retain their Reserve affiliation in a non-participating status, and (b) have skills that may be of possible future use to the Military Department concerned.

station pressure

surface pressure at the observing station; the atmospheric pressure computed for the level of the station elevation

Storyboard

A collection or series of small pictures or sketches arranged sequentially that describe the action and content in an audiovisual or visual-only production.

Structure manning decision review (SMDR)

An annual process that compares the total Army training requirements for a fiscal year against the training capability of a given TRADOC school and resolves the differences.

Student Evaluation Plan

A plan that details how the proponent school will determine if the student has demonstrated a sufficient level of competency to pass the specified course or training. It specifically identifies course completion requirements to include the minimum passing score (or GO/NO GO) for each written or performance examination, final grade requirement, minimum course attendance requirements (if applicable); and specific tests that must be satisfactorily completed to graduate. It very specifically identifies how the student's performance will be evaluated. Specific lessons tested in each test are identified. Counseling and retesting policy are delineated. Other evaluations, such as the Army Weight Control Program and Army Physical Fitness Test, that impact on graduation are identified, and their requirements are included.

Student performance counseling

As related to training, communication which informs soldiers/students about their training and the expected performance standards and provides feedback on actual performance. Soldier/student performance includes appearance, conduct, learning accomplishment, and the way learning is being carried out.

Student workbook

A proponent produced document that provides preprinted exercises for student's study. May include graphics and text.

Study guide

As the name states, a document that guides the student through the process of studying a lesson or series of lessons. The student can use it for recording notes.

Subject matter expert (SME)

An individual who has a thorough knowledge of a job (duties and tasks). This knowledge qualifies the individual to assist in the training development process (i.e., consultation, review, analysis, etc.). Normally, a SME will instruct in his area of expertise.

subscriber table

A list stored in the computer which identifies those subscribers that can legally send messages to your computer and receive messages from it.

Supervised on-the-job training (OJT)

Structured training accomplished while a person is working in a particular skill level and military occupational specialty. The training is closely monitored by the soldier's supervisor because of equipment, safety, or skill requirements. Training support products such as training extension course lessons, interactive courseware, and correspondent subcourses may be integrated into supervised on-the-job training.

Supporting schools

Those schools who have responsibility for training particular jobs in support of a new system but are not the proponent for the system itself. Supporting schools provide input to the STRAP in their areas of responsibility.

surface wind

the wind speed and direction as measured at the surface with an anemometer, of the wind speed and direction detected by a 15-second flight of a 30-gram pilot balloon or a 10-second flight of a 100-gram balloon

survey plane

those survey procedures, common to field artillery, in which the effect of the curvature of the earth is almost entirely neglected, and computations of the relative positions of the stations are made using the principles of plane geometry and plane trigonometry

System MANPRINT Management Plan (SMMP)

A management plan to ensure the combat developer/materiel developer take the six MANPRINT domains into account during the development of all materiel items.

System training plan (STRAP)

The master training plan for a new system. It outlines the development of the total training strategy for integrating the item into the training base and gaining units; plans for all necessary training support, training products, and courses; and sets milestones to ensure the accomplishment of the training strategy.

Systems Approach to Training (SAT)

The Army's training development process. It is a disciplined, logical approach to making collective, individual, and self-development training decisions for the total Army. It determines whether or not training is needed; what is trained; who gets the training; how, how well, and where the training is presented; and the training support/resources required to produce, distribute, implement, and evaluate those products. The SAT involves all five training related phases: analysis, design, development, implementation, and evaluation. See "training development."

Table of distribution and allowance

A table which prescribes the organizational structure, personnel, and equipment authorizations, and requirements of a military unit to perform a specific mission for which there is no appropriate table of organization and equipment.

Table of organization and equipment

1. The table setting out the authorized numbers of men and major equipment in a unit/formations. 2. The full table of organization and equipment strength (or type B or Cadre strength, when appropriate) for units organized under F or earlier series tables of organization and equipment; level 1 strength (or type B or Cadre strength when appropriate) for units organized under G or later series table of organization and equipment; and the authorized strength of units organized under tables of distribution and allowances.

tactical fire control

The selection of unit(s) to fire, firing points to use and the allocation of the most suitable ammunition for each target.

Tactics

The employment of units in combat. The ordered arrangement and maneuver of units in relation to each other and/or to the enemy in order to use their full potentialities. Example: A commander designates a unit as a reserve and plans for its use.

Target audience description

A description of the quantity and qualifications of the personnel to be trained. They are the job holders. They perform all the tasks associated with the specific job. They will operate, maintain, and support a system or equipment, perform critical tasks and lead the unit. It describes the range of individual qualification and all relevant physical, mental, physiological, biographical, and motivational dimensions.

Target population

The persons for whom the instructional or training materials are designed. Samples from this population are used in evaluating training materials during their development. Also called target audience.

Task

A clearly defined and measurable activity accomplished by individuals and organizations. It is the lowest behavioral level in a job or unit that is performed for its own sake. It must be specific; usually has a definite beginning and ending; may support or be supported by other tasks; has only one action and, therefore, is described using only one verb; generally is performed in a relatively short time (however, there may be no time limit or there may be a specific time limit); and it must be observable and measurable. The task title must contain an action verb and object and may contain a qualifier. Types: (subsequent entries)

Task - Collective task

Derived from unit missions. Requires group participation for its accomplishment (e.g., operate an M105 Howitzer). It may also be a mission requirement, such as secure a bridgehead, that can be broken down into supporting individual tasks. It describes the exact performance a unit must perform in the field under actual operational conditions.

Task - Common task - Common collective task.

A collective task that is trained and performed in the same way by every unit in the Army. See "collective task" and "critical task." Example: "Set up a personnel decontamination station.

Task - Common task - Common skill level task

An individual task performed by every soldier in a specific skill level regardless of MOS or branch., e.g., a task performed by all captains.

Task - Common task - Common soldier task

An individual task performed by all soldiers, regardless of rank. Example: All soldiers must be able to perform the task, "Perform mouth-to-mouth Resuscitation." Note: There are common soldier tasks that apply to all Army civilian employees as well, e.g., Maintain security of classified information and material.

Task - Critical task

A collective or individual task a unit or individual must perform to accomplish their mission and duties and to survive in war or operations other than war (OOTW). Critical tasks must be trained.

Task - Individual task

The lowest behavioral level in a job or duty that is performed for its own sake. It should support a collective task; it usually supports another individual task.

Task - Organizational level critical task

Common skill level task shared by other skill levels, e.g., captains and company first sergeants may perform the same tasks.

Task - Shared task - Collective

A task which may apply to some units which have different proponents or to different echelon/TOE units within a single proponent's authority. The task, conditions, standards, task steps, and performance measures do not change.

Task - Shared task - Individual

An individual task performed by soldiers from different jobs and/or different skill or organizational levels. Shared tasks are usually identified when conducting an analysis of a specific job. Example: The lieutenant and sergeant in the same platoon perform some of the same tasks.

Task delay tolerance

An individual critical task selection factor. A measure of how much delay can be tolerated between the time the need for task performance becomes evident and the time actual performance must begin.

Task learning difficulty

An individual critical task selection factor. A statistical rating collected when conducting job analysis that indicates the time, effort, and assistance required by a student to achieve performance proficiency.

Task performance specifications

The specifications that describe how the task is actually performed, under what conditions it is performed, and how well the individual must perform it. They are the task performance details needed to establish the individual training strategy and to design and develop follow on training. The specifications are --Task statement; Task number; Task performance condition; Task performance standard; Performance steps; Supporting skills and knowledges for each performance step. References required for performance step; Safety factors, hazards, and considerations associated with for each performance step; Environmental factors and considerations associated with for each performance step; Equipment and materials required to perform the performance step; Supporting individual task(s) performed as part of or in support of the individual task being analyzed; Performance measures; Supported individual task(s); Supported collective task(s); Supported Battlefield Operating System (BOS); Task certification requirements if applicable.

Task Performance Steps

The required unit/individual actions that must be performed to accomplish the critical task. Each step must be specific and detailed and contain only one action or unit of work. Note: A collective task step may be a supporting individual or collective task.

Task selection board

A group of subject matter experts who evaluate task performance data and recommend to the approving authority those individual tasks which they determine to be critical.

Task selection factors

A statistical factor collected by survey on all tasks listed in the individual total task inventory. These factors are applied by using a task selection model to identify which individual tasks are critical to job performance. See "Task selection models."

Task selection model

A models used to apply statistically valid task selection models to identify critical individual tasks. There are a variety of models available for use. Those commonly used are as follows: Difficulty-importance-frequency model--An individual critical task selection model that uses difficulty, importance, and frequency factors; Eight-factor model--An individual critical task selection model that uses percent performing, percent time spent performing, consequence of inadequate performance, task delay tolerance, frequency of performance, task learning difficulty, probability of deficient performance, and immediacy of performance; Four-factor model--An individual critical task selection model that uses percent performance, and task learning difficulty; Probability of task criticality model--An individual critical task selection model used by the Occupational Data, Analysis, Requirements and Structure Program (ODARS); Training emphasis (TE) model--An individual critical task selection model that uses the training emphasis factor to determine if a task is critical or not. The TE factor is collected from supervisors of job

holders. It reflects how much emphasis the task should be given in training for a specific task. The TE is the most useful single training factor for critical task selection.

Task summary

A listing in the soldiers' training publications of the conditions, standards, and performance measures, references, and proponent for each individual critical task. Information is extracted from the individual critical task analysis. See "Task performance specifications." Reference-dependent task summary--A summary written for those tasks which require the trained soldier to refer to one or more publications while performing all or part of a task in wartime conditions. Reference-independent task summary--A summary written for those tasks which require the trained soldier to perform the task in wartime conditions from memory, without reference to any publications.

Task-based training

Training developed and implemented to train units and soldiers to perform critical tasks and supporting skills and knowledges to established performance standards. Critical tasks focus training on what really needs to be trained.

technical fire control

The process of determining firing data (deflection, quadrant and fuze setting) that causes the ammunition fired to hit the designated target.

Technical manual (TM)

A publication which describes equipment, weapons, or weapons systems with instructions for effective use. It may include sections for instructions covering initial preparation for use and operational maintenance and overhaul.

Technical manual verification

The Army's effort to ensure TMs are usable by the intended target audience. Hands-on performance of the procedures presented in the TM is the preferred method of verification. Preferably target audience soldiers will perform the verification. See "Technical manual."

Technique of delivery

Process or manner of delivering instruction that includes one or more methods. For example, group-paced instruction could use conference, discussion, demonstration, and practical exercise. See Appendix H.

Techniques

The general and detailed methods used by troops and/or commanders to perform assigned missions and functions, specifically, the methods of using equipment and personnel. Example: A tactic of covering an obstacle with direct and indirect fires may be executed by emplacing machine guns on the flanks to place direct fire down the length of the obstacle and using mortars to place indirect fire on the obstacle. Both types of fires can be shifted beyond the obstacle to cut off withdrawal of an opposing force.

Template

In testing, the answer key used to grade tests. It can be a score sheet with correct answers listed or it can be electronic and used with an optical scanner to score tests.

Terminal learning objective (TLO)

The main objective of a lesson. It is the performance required of the student to demonstrate competency in the material being taught. A TLO describes exactly what the student must be capable of performing under the stated conditions to the prescribed standard on lesson completion. There is only one TLO per lesson regardless of presentation method or media and it has only one verb. The terminal learning objective may cover one critical task, part of a critical task (i.e., a skill or knowledge), or more than one critical task. The terminal learning objective may be identical to the critical task being taught or there may be a disparity between them. Where there is a disparity, it is the terminal learning objective standard that

the student must achieve to demonstrate competency for course completion. See "Learning objective" and "Enabling learning objective."

Test

A device, technique, or measuring tool used to -- Determine if a student or group can accomplish the objective to the established standard; Determine if training does what it is designed to do efficiently and effectively; Measure the skill, knowledge, intelligence, abilities, or other aptitudes of an individual or group; Collect data as a basis for assessing the degree that a system meets, exceeds, or fails to meet the technical or operational properties ascribed to the system. Criterion-referenced test--A test that establishes whether or not a unit or soldier performs the learning objective to the established standard. Performance is measured as a "go" or "no-go" against a prescribed criterion or set of criteria - the learning objective standard. It is scored based upon absolute standards, such as job competency, rather than upon relative standards, such as class standings. Norm-referenced test--A test that grades a student based on the performance of other students taking the same test. Is scored based upon relative standards, such as class standings, rather than upon absolute standards, such as job competency.

tgt

indicates fire mission target number--six alphanumeric characters; indicates target number assigned by originating agency or by computer upon receipt; indicates target number of the registration; indicates target number associated with a known point--six alphanumeric characters

The Army's Correspondence Course Program (ACCP)

The Army's Correspondence Course Program (ACCP) is a formal nonresident extension of the TRADOC (Training and Doctrine Command) service schools. The ACCP offers individual and group study enrollments in correspondence courses. Individual enrollees enroll at their own discretion and decide their own course of study. The ACCP offers courses and subcourses free of charge to U.S. military officers, warrant officers, enlisted members, active and RC, ROTC and National Defense Cadet Corps, authorized federal civilian employees, and non-U.S. citizens who are employed by the Department Of Defense. Active and RC (Reserve Component) E4s and E5s can accrue promotion points, and RC soldiers can accrue retirement points through the ACCP (Army Correspondence Course Program). They are also available to foreign military students through the Foreign Military Sales Program. See "Correspondence course."

theodolite

an optical instrument which consists of a sighting telescope and graduated scales to read angles of azimuth and elevation

Topographic Support System (TSS)

A modular set of topographic equipment consisting of survey, cartographic, reproduction, and military geographic information (MGI) subsystems. The modules are either van or trailer mounted.

Topography

As used in the Army, this term includes charting, geodesy activities, and terrain analysis, plus the disciplines of survey, cartography, terrain analysis, and the skills of reproduction (AR 115-11).

Total Army Training System (TATS) Course

A course designed to train the same MOS/AOC skill level or ASI, LIC, SQI, SI within the Total Army. The course ensures standardization by training all course critical tasks to task performance standard. It may be trained at different sites and may involve use of different media/methods to train the various phases/modules/lessons.

Total Army Training System (TATS) POI

A requirements document that provides a general description of the Total Army Training System Course content, duration of instruction, and methods of instruction and media. It lists critical tasks taught and resources required to conduct peacetime and mobilization training. Note: This is the objective TATS POI; currently being automated.

Total task inventory

A listing of all the individual tasks performed as part of a job. Critical tasks for the job are derived from this inventory. See "Job" and "Task."

Track

A designed, sequential, and progressive training path for a course. A single course may have multiple tracks, e.g., tracks for different equipment.

TRADOC Budget Guidance (TBG)

Narrative guidance and funding trails are issued twice a year, for the Command Budget Estimate (CBE) and for the Appropriation TRADOC Budget Guidance (ATBG), based on the appropriation funding letter received from HQ DA.

TRADOC Long-Range Plan

The document which prescribes directions the command will follow over the next 10 years in preparing the Army for war and developing characteristics of the Army of the future. It also provides a structure upon which resources will be more accurately justified and allocated at every level and a frame work from which subordinate plans will be prepared.

TRADOC materiel evaluation committee (TMEC)

Committee reviews all IPR/Army Systems Acquisition Review Council (ASARC) milestone decision review positions or test waivers of ITOE.

TRADOC Review of Manpower (TRM)

An annual process where TRADOC schools submit manpower requirements. TRADOC staff validates and recognizes these requirements, and available manpower is allocated to meet TRADOC priorities.

TRADOC System Manager (TSM)

An individual appointed by the CG, TRADOC, responsible for coordinating the CD, user, and trainer efforts in the life cycle management of the assigned system. This individual also is responsible for doctrinal and organizational standardization or interoperability with NATO.

Trainer

An individual who conducts training, whether in a unit or a training institution. For the Train the Trainer Program, it implies all training related personnel involved in the training mission, such as instructors, training developers, analysts, small group leaders, and evaluators.

Training aids, devices, simulators, and simulations (TADSS)

A general term that includes CTC and training range instrumentation; Tactical Engagement System (TES); battle simulations; targetry; training-unique ammunition; and dummy, drill, and inert munitions. All of these are subject to the public laws and regulatory guidance governing the acquisition of materiel.

Training Circular (TC)

TCs are publications (paper or computer-based) which provide a means to distribute unit or individual soldier training information that does not fit standard requirements for other established types of training publications. TCs are part of the Armywide Doctrinal and Training Literature Program (ADTLP).

Training course

Structured, sequenced training designed to train a student to perform identified learning objectives to the prescribed standard. The training may be presented by advanced technology, such as computers; by conventional methods, such as conference using trained instructors; by distance learning techniques, such as distributed print or interactive courseware (ICW) modules; or by a combination thereof.

Training developer

The individual whose function is to analyze, design, develop, and evaluate training and training products, to include development of training strategies, plans, and products to support resident, non-resident, and unit training. Any individual functioning in this capacity is a training developer regardless of job or position title. In developing systems, the command or agency responsible for the development and conduct of training which will provide the tasks necessary to operate and logistically support the new materiel system.

Training development (TD)

The Army's training development process is a systematic approach to making collective, individual, and self-development training decisions for the total Army. It determines whether or not training is needed; what is trained; who gets the training; how, how well, and where the training is presented; and the training support/resources required to produce, distribute, implement, and evaluate those products. The process involves five training related phases: analysis, design, development, implementation, and evaluation. Note 1: Do not confuse the overall TD process with the particular Systems Approach to Training (SAT) phase called "development," which is related specifically to the development of training and training products following analysis and design. Note 2: See "Systems Approach to Training (SAT)."

Training development management

The process TRADOC schools use to plan training development, determine and allocate TD resources, schedule TD, and ensure quality training products are produced.

Training Development Plan

The title "Training Development Plan" is a generic name for a master planning document. Different proponent schools may have used different titles in the past. It functions as a top-level plan covering all resourced requirements (reflected in training development project management plans) and unresourced requirements. It includes all required training products (resident and nonresident courses, training support package, etc.) and all training development processes (mission analysis, job analysis, etc.). It shows what training development workload must be accomplished during the execution, budgeting, and programming years; and it increases in detail up to the execution year. It does not have to be a formal plan: the requirements can be in a database and not formalized in a report. The plan is for internal proponent school use.

Training development planning

The planning of all aspects of training development including but not limited to funding, staffing, resourcing, and scheduling. The degree of planning varies with the office or command level and products produced. Long-range planning covers years three through twenty past the execution year. Planning helps ensure the most efficient use of manpower and other resources to develop the important training first. See "TD project management plan" and the "TD plan."

Training development products

Products of the training development process that enable the formulation and implementation of training programs. They include items such as critical task lists, correspondence courses, lesson plans, and training materials.

Training development requirement

The training solution to a performance deficiency determined during needs analysis or training strategy development.

Training Development Workload Planner--Automated Systems Approach

An automated training development (TD) workload database used to assist in the management of TD workload.

Training device

Three-dimensional object and associated computer software developed, fabricated, or procured specifically for improving the learning process. Categorized as either system or nonsystem devices. System device--Device designed for use with a system, family of systems, or item of equipment, including

subassemblies and components. It may be stand-alone, embedded, or appended. Nonsystem device-- Device designed to support general military training and nonsystem-specific training requirements.

Training device needs statement

The proponent documentation describing the role of the proposed nonsystem training device in the training programs and the expected basis of issue plan.

Training device requirement (TDR)

The proponent prepared documentation of requirements for nonsystem training device which require research and development.

Training effectiveness (TE)

A measure of how well the learning objectives have been met. The evaluator determines whether the unit or soldier meets or exceeds established training standards.

Training effectiveness analysis (TEA)

A general category of studies for assessing the cost and/or effectiveness of TRADOC's training strategies, programs, and products.

Training efficiency

The determination of how well training resources were used to train effectively. See "Training effectiveness."

Training equipment

An items of tactical or nontactical equipment or components used for training purposes in which the pieces of equipment do not lose their identity as end items for operational purposes, e.g. rifles, vehicles, communication equipment, and aircraft.

Training facility

A permanent or semipermanent facility, such as a firing range (range towers, scoring benches, lane markers, range signs), confidence course, military operations on urbanized terrain (MOUT) complex, aircraft mock-up, jump school tower, or training area. Training facilities are construction projects and are not considered items of TADSS.

Training management

The process commanders and their staff use to plan training and related resource requirements needed to conduct and evaluate training. It involves all echelons and applies to any unit in the Army regardless of strength, mission, organization, or equipment assigned.

Training materials

Those materials developed as a result of training design and provided to teach or evaluate training. They include, but are not limited to; computer based instruction, correspondence courses, training literature products, student handouts, and other products used to train to a prescribed standard.

Training method

The procedure or process for attaining a training objective. Examples include lecture, demonstration, discussion, assigned reading, exercise, examination, seminar, and programmed instruction.

Training objective

A statement that describes the desired outcome of a training activity in the unit. It consists of the following three parts: task, condition(s), standard.

Training plan

A detailed description of the actions, milestones, and resources required to implement a training strategy. The detail depends upon the plan type and level. See "Project management plan" and "Training development plan."

Training program

An assembly or series of courses or other training requirements organized to fulfill a broad overall training goal.

Training proponent

The organization designated to exercise supervisory management of all combat/training development aspects of a materiel system, functional area, or task. See "Proponent school."

Training requirements

As related to training implementation -- The critical tasks Army's units and soldiers must be able to perform to the standard required if they are to be able to fight, win, and survive on the battlefield. Army training and training products will only be produced to meet a valid training requirement and to train soldiers and units to perform critical collective and individual tasks to established standards. As related to resident course management -- The number of personnel required to enter into training to meet commitments of the military services concerned.

Training safely

Achieved by identifying task performance safety hazards and integrating safety in training procedures during training design, development and implementation. Safety in training and training safely are not one and the same.

Training solution

A solution to a performance deficiency. See "Needs analysis" and "Training development requirement."

Training strategy

The general description of the methods and resources required to implement a training concept. It lays out the who, what, where, when, why, how, and cost of the training. The development of a training strategy includes determining the training site and media selected to train each critical task.

Training strategy - Combined Arms Training Strategy (CATS)

The Army's overarching concept or plan used to attain and sustain desired levels of training proficiency on mission essential or critical tasks. Its basis is a series of branch proponent unit and institutional strategies describing training events, frequencies, and resources required to train to standard. These strategies describes how the Army will train the total force to standard in the institutions and unit and through self development. CATS also documents the quantity, and justification for all training resources required to execute the training.

Training strategy - Individual training strategy (ITS)

A cradle-to-grave description of the methods and resources required to develop and implement individual training. It describes, who (soldier), what (task), where (training site), when, and at what cost the training will be developed and implemented. There are long-range and short-range individual training strategies.

Training strategy - Long-range training strategy

The long-range estimation of who, how, when, and where training will be provided. The time period extends from the third year following the execution year and beyond. Long-range training strategies are developed/updated after needs analysis determines a training requirement(s) exists. Long-range plans, e.g., ITP, document future training requirements. Example: Needs analysis determines a requirement to develop training to support a new MOS or system. Strategy development determines the best way to train these tasks is by a training device. This requirement is entered in the ITP for the affected MOS skill level(s).

Training strategy - Short-range Training Strategies

The short-range determination of who, how, when and where tasks will be trained. The time period includes the execution plus the two budget years. Short-range training strategies are developed following the critical individual task analysis. They are supported by updated long-range plans (e.g., ITP) and

development/update of short-range training plans/models. Example: Strategy development determines that CBI is the best way to train several of the approved critical tasks. Developers then develop a CBI project management plan and design the CBI product.

Training strategy - Soldier Training Strategy

A CATS training strategy that reflects individual tasks that unit commanders must ensure their soldiers can perform in the accomplishment of unit missions.

Training strategy - Unit Training strategy

The training design (plan) to attain and sustain the desired level of performance proficiency on mission essential or critical collective tasks. These strategies are based on mission and critical collective analysis data and evaluation feedback. They establish the need to produce collective training products and materials. Unit strategies are prepared in the form of a gunnery, maneuver/collective, and soldier matrix.

Training structure

The organization of instruction into logical groupings to facilitate learning. The basic structures of formal Army training are: phases, modules (annex, subcourse), and lessons. See "Sequencing.

Train-up

The process of increasing the skills and knowledge of soldiers to a higher SL in their MOS. This process may involve certification.

Traverse

1. to turn a weapon to the right or left on its mount. 2. A method of surveying in which lengths and directions of lines between points on the earth are obtained by or from field measurements, and used in determining positions of the points.

TYPE

indicates target type and subtype--12 alphabetic characters; indicates the hostile weapon type and subtype

Uncontrolled mosaic

A mosaic composed of unrectified prints and constructed by matching detail from print to print without ground control or other orientation. This mosaic can usually be constructed more quickly than the other types. However, it is the least accurate in scale and position.

unprotected field

Data field in a message format that is blank when the format is displayed. The operator may make entries in this field.

UPFPF

update of final protective fire directory table; specifies fire unit which provides an observer with final protective fire

V through Z

mnemonic identifier; used to check the legality of subscriber messages; if second subfield is blank, all messages for specified category will be assumed

zone-to-zone transformation

The computer processing of the coordinates of a point located in a grid zone next to the grid zone stored in the computer. This process is helpful when a target is located in an adjacent grid zone.

Zoom transfer scope

An instrument which permits the superimposition of a photographic image over a map. Used for the revision of maps and related products, there are monoscopic and stereoscopic models of this instrument.

ZULU time (Z)

Greenwich mean time used as a basis for standard time throughout the world; expressed in hours and minutes

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ARTEP 6-037-30-MTP
1 APRIL 2000

By Order of the Secretary of the Army:

Official:



Handwritten signature of Joel B. Hudson in black ink.

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0102304

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DISTRIBUTION:

Active Army, Army National Guard, and U.S. Army Reserve: To be distributed in accordance with the initial distribution number 120834, requirements for ARTEP 6-037-30-MTP.

PIN: 065568-000