

STP 9-45K14-SM-TG

SOLDIER'S MANUAL/ TRAINER'S GUIDE



MOS 45K



TANK TURRET REPAIRER
Skill Levels 1/2/3/4



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SOLDIER'S MANUAL and TRAINER'S GUIDE

MOS 45K

Tank Turret Repairer

Skill Levels 1/2/3/4

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This publication supercedes STP 9-45K12-SM and STP 9-45K34-SM-TG, dated 27 October 1992.

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PREFACE

This soldier training publication (STP) is intended for soldiers holding MOS 45K, Skill Levels 1, 2, 3, and 4 their supervisors, trainers, and commanders. It contains an MOS Training Plan providing information needed to plan, conduct, and evaluate unit training, one of the most important jobs of military leaders. It includes standardized training objectives in the form of task summaries that can be used to train and evaluate soldiers on critical tasks supporting unit missions during wartime.

Soldiers holding MOS 45K should have access to this publication. Trainers and first-line supervisors should actively plan for soldiers' access, making it available in work areas, unit learning centers, and unit libraries. However, it is not intended for an individual copy to be provided to each MOS holder. The STP is obtainable on line from the Reimer Digital Library (RDL) at <http://www.adtdl.army.mil/atdls.htm>.

Tasks in this manual apply to both Active and Reserve Component soldiers.

The proponent of this publication is HQ TRADOC. Submit comments and recommendations on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Department of the Army, Training Directorate, Ordnance Training Division, ATTN: ATCL-AO, 401 First Street, Suite 227, Fort Lee, VA 23801-1511.

Unless this publication states otherwise, masculine nouns and pronouns do not refer exclusively to men.

CHAPTER 1

INTRODUCTION

1-1. General. This soldier training publication (STP) identifies individual MOS training requirements for soldiers holding MOS 45K. Commanders, trainers, and soldiers should use it to plan, conduct, and evaluate individual training in units. The STP is the primary MOS reference for supporting self-development, evaluating MOS proficiency, and training of 45K soldiers. Commanders employ two primary methods to evaluate soldiers' proficiency:

- Commander's evaluation. Commander's evaluations are local tests or assessments of soldiers' performance of MOS-specific and common tasks critical to the unit mission. They may be conducted year-round.
- Common task test (CTT). CTTs are hands-on tests used to evaluate proficiency on common tasks. Alternate written tests are provided if equipment is not available for hands-on testing.

This publication is the soldier's primary reference to prepare for a commander's evaluation of MOS-specific tasks. It contains task summaries for all critical tasks specific to the MOS and skill level (SL). Commanders and trainers will use this soldier's manual/trainer's guide (SM/TG) to plan and conduct training and commander's evaluations.

Chapter 2, Trainer's Guide, contains information needed to plan training requirements for this MOS. The trainer's guide—

- Identifies subject areas in which soldiers must be trained.
- Identifies critical tasks for each subject area.
- Specifies where soldiers are initially trained on each task.
- Recommends how often each task should be trained to sustain proficiency.
- Recommends a strategy for cross-training soldiers.
- Recommends a strategy for training soldiers to perform higher-level tasks.

Use this STP along with STP 21-1-SMCT (Soldier's Manual of Common Tasks, Skill Level 1), STP 21-24-SMCT (Soldier's Manual of Common Tasks, Skill Levels 2-4), Army training and evaluation programs (ARTEPs), FM 25-4 (How to Conduct Training Exercises), FM 25-5 (Training for Mobilization and War), FM 25-100 (Training the Force), and FM 25-101 (Battle-Focused Training) to establish effective training plans and programs that integrate soldier, leader, and collective tasks.

1-2. Task Summaries. Task summaries outline wartime performance requirements for each critical task in the STP. They provide both soldier and trainer with the information necessary to prepare, conduct, and evaluate critical task training. As a minimum, task summaries include information soldiers must know and skills they must perform to standard for each task. Following is the task summary format:

- **Task number.** The task number is a 10-digit number that identifies the task and skill level. Include the task number and title in any correspondence relating to the task.
- **Task title.** The task title identifies the action to be performed.
- **Conditions.** The task conditions statement describes the field or garrison conditions under which the task will be performed and identifies the equipment, tools, references, job aids, and supporting personnel that the soldier needs to perform the task in wartime.
- **Standards.** The task standards describe how well and to what level of proficiency the soldier must perform the task under wartime conditions. Standards are typically expressed in terms of accuracy, completeness, duration, sequence, speed, and tolerance.
- **Performance measures.** This section identifies specific actions that the soldier must accomplish to complete the task successfully. Performance measures appear in a GO/NO-GO rating format for easy evaluation. Some tasks may also include detailed training information in a Training Information Outline and an Evaluation Preparation Section. The Evaluation Preparation Section indicates necessary modifications to task performance in order to train and evaluate a task that can not be trained to the wartime standard under wartime conditions. It may also include special training and evaluation preparation instructions to accommodate these modifications and any instructions that should be given to the soldier before evaluation.
- **References.** This section identifies references that provide more detailed explanations of task performance requirements than are given in the task summary.
- **Warnings.** Warnings alert users to the possibility of immediate personal injury or equipment damage.
- **Notes.** Notes provide additional supportive explanations or tips relating to task performance.

1-3. Soldier's Responsibilities. Each soldier is responsible for performing individual tasks identified by the first-line supervisor based on the unit's mission-essential task list (METL). Soldiers must perform tasks to the standards included in the task summary. If soldiers have questions about tasks or which tasks in this manual they must perform, they are responsible for asking their first-line supervisor for clarification. First-line supervisors know how to perform each task or can direct soldiers to appropriate training materials, including current field manuals, technical manuals, and Army regulations. Soldiers are responsible for using these materials to maintain performance. They are also responsible for maintaining performance of all common tasks listed in the SMCTs at their current skill level and below.

Periodically, soldiers should ask their supervisor or another soldier to check their performance to ensure that they can perform the tasks.

1-4. NCO Self-Development and the STP. Self-development is a key component of leader development. Leaders follow planned, progressive, sequential self-development programs developed by the individual NCO and his or her first-line supervisor to enhance and sustain military competencies. Self-development consists of individual study, research, professional reading, practice, and self-assessment. The self-development concept requires NCOs, as Army professionals, to take responsibility for remaining current in all phases of their MOS. The STP is the NCO's primary source for maintaining MOS proficiency.

Another important resource for self-development is the Army Correspondence Course Program (ACCP). Refer to DA Pamphlet 351-20 (Army Correspondence Course Program Catalog) for detailed eligibility requirements and enrollment information. The catalog is available at local education centers or on line through the Army Institute for Professional Development (AIPD) web site, <http://www.atsc.army.mil/accp/aipd.htm>. The web site offers on-line enrollment.

1-5. Commander's Responsibilities. Commanders must ensure that their unit training plans prepare the unit for war by enabling soldiers to develop and sustain proficiency in their MOS and skill level tasks. Commanders should design unit training programs to provide individual training for all soldiers assigned to the unit and to evaluate soldier proficiency routinely as part of the commander's evaluation program. The unit training program should also integrate individual training with crew drills and other collective training. The MOS training plan provides information on which to base integration, cross-train, train-up, and sustainment training programs. Commanders should use the MOS training plan when developing unit training plans.

1-6. Trainer's Responsibilities. Training is the business of all unit leaders. First-line leaders are the principal trainers in the unit because they directly supervise soldiers and lead crews, squads, sections, and teams.

Trainers can use the MOS training plan to determine the critical tasks each soldier is responsible for. They should tell each soldier which tasks he or she must be able to perform. Trainers should evaluate task performance to determine which tasks each soldier can or cannot perform to standard. Soldiers who cannot perform a task to standard need further training. This STP helps the trainer do what trainers get paid to do—train. Developing effective training is explained in detail in FM 25-100 and FM 25-101.

Every task summary in this STP includes performance measures, which trainers may use year-round to determine if soldiers can perform critical tasks to the specified standards. The performance measures identify what the trainer needs to observe to score a soldier's performance. A blank space is provided for the trainer to check either the GO or NO-GO column for each performance measure. Some tasks require the trainer to watch the soldier perform them (evaluate the process). Other tasks call for the trainer to focus on the results of the soldier's performance (evaluate the product). Comments should not be written on the task summary.

Trainers can monitor the progress of their soldiers by recording task go/no-go results. Trainers may use DA Form 5164-R (Hands-On Evaluation) to record the performance measures a soldier passed or failed. The form, which may be locally reproduced, applies to all tasks in this STP. Trainers may have DA Form 5164-R overprinted with information unique to their training requirements before reproducing it. See Appendix A of this STP for a sample DA Form 5164-R with instructions.

- Trainers may use DA Form 5165-R (Field Expedient Squad Book) to record hands-on go/no-go results for a group of soldiers (for example, a crew, section, or squad) having the same MOS and skill level. This form supports conduct of commander's evaluations, and can be used to record training results gathered in the field during slack time for all MOSs and skill levels. Use of this form is optional. See Appendix B for a sample DA Form 5165-R with instructions. Trainers should work with each soldier until tasks can be performed to specific task summary standards.

1-7. Training Support. References have been identified for each task to assist in planning and conducting training. A consolidated list of references identified by type, publication number, and title and a comprehensive glossary of acronyms, abbreviations, and definitions are included in this STP.

CHAPTER 2

Training Guide

45K CAREER FIELD DUTY POSITIONS			
Duty Position	Subject Area	Cross Train	Train-up/Merger
Skill Level 1			
Armament Repairer	1 - 6	NA	45K20/Armament Repairer
Skill Level 2			
Armament Repairer	1 - 8	NA	45K30/Armament Repairer Supervisor
Skill Level 3			
Armament Repairer Supervisor	1 - 9	NA	45K40/Armament Repairer Supervisor
Skill Level 4			
Armament Repairer Supervisor	9	NA	63Z50/Mechanical Maintenance Supervisor

2-1. General. The MOS Training Plan (MTP) identifies the essential components of a unit training plan for individual training. Units have different training needs and requirements based on differences in environment, location, equipment, dispersion, and similar factors. Therefore, the MTP should be used as a guide for conducting unit training and not a rigid standard. The MTP consists of two parts. Each part is designed to assist the commander in preparing a unit training plan which satisfies integration, cross training, training up, and sustainment training requirements for soldiers in this MOS.

Part One of the MTP shows the relationship of an MOS skill level between duty position and critical tasks. These critical tasks are grouped by task commonality into subject areas.

Section I lists subject area numbers and titles used throughout the MTP. These subject areas are used to define the training requirements for each duty position within an MOS.

Section II identifies the total training requirement for each duty position within an MOS and provides a recommendation for cross training and train-up/merger training.

- **Duty Position column.** This column lists the duty positions of the MOS, by skill level, which have different training requirements.
- **Subject Area column.** This column lists, by numerical key (see Section I), the subject areas a soldier must be proficient in to perform in that duty position.
- **Cross Train column.** This column lists the recommended duty position for which soldiers should be cross trained.
- **Train-up/Merger column.** This column lists the corresponding duty position for the next higher skill level or MOS the soldier will merge into on promotion.

Part Two lists, by general subject areas, the critical tasks to be trained in an MOS and the type of training required (resident, integration, or sustainment).

- **Subject Area column.** This column lists the subject area number and title in the same order as Section I, Part One of the MTP.

- **Task Number column.** This column lists the task numbers for all tasks included in the subject area.
- **Title column.** This column lists the task title for each task in the subject area.
- **Training Location column.** This column identifies the training location where the task is first trained to soldier training publications standards. If the task is first trained to standard in the unit, the word “Unit” will be in this column. If the task is first trained to standard in the training base, it will identify, by brevity code (ANCOC, BNCOC, etc.), the resident course where the task was taught. Figure 2-1 contains a list of training locations and their corresponding brevity codes.

ASI/SD	Additional Skill Identifier/Special Duty
ANCOC	Advanced NCO Course
AIT	Advanced Individual Training
BNCOC	Basic NCO Course
BTC	Basic Technical Course
UNIT	Trained in the Unit

Figure 2-1. Training Locations

- **Sustainment Training Frequency column.** This column indicates the recommended frequency at which the tasks should be trained to ensure soldiers maintain task proficiency. Figure 2-2 identifies the frequency codes used in this column.

BA	- Biannually
AN	- Annually
SA	- Semiannually
QT	- Quarterly
MO	- Monthly
BW	- Bi-weekly
WK	- Weekly

Figure 2-2. Sustainment Training Frequency Codes

- **Sustainment Training Skill Level column.** This column lists the skill levels of the MOS for which soldiers must receive sustainment training to ensure they maintain proficiency to soldier’s manual standards.

2-2. Subject Area Codes.**Skill Level 1**

- 1 M1 SERIES ABRAMS TANK MAINTENANCE TASKS
- 2 M901 ITV/M981 FISTV VEHICLE MAINTENANCE TASKS
- 3 M109 SERIES SELF PROPELLED HOWITZER MAINTENANCE TASKS
- 4 M2/3 BRADLEY FIGHTING VEHICLE (BFV) TURRET MAINTENANCE TASKS
- 5 TMDE, BDAR, AND SERVICES TASKS
- 6 M1A2 ASI 45K (ASIK4)

Skill Level 3

- 7 COMMON LOGISTICS TASKS
- 8 TECHNICAL TASKS

Skill Level 4

- 9 COMMON LOGISTICS MANAGEMENT TASKS

2-3. Duty Position Training Requirements.

2-4. Critical Tasks List.**MOS TRAINING PLAN
45K14****CRITICAL TASKS**

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
Skill Level 1					
1. M1 SERIES ABRAMS TANK MAINTENANCE TASKS	091-45K-2032	Correct Malfunctions on the M1 Series Abrams Tank Armament System	AIT	AN	1/2
	091-45K-2034	Correct Malfunctions on the M1 Series Abrams Tank Turret Hydraulic System	AIT	AN	1/2
	091-45K-2035	Correct Malfunctions on the M1 Series Abrams Tank Turret Electrical System	AIT	AN	1/2
	091-45K-2036	Correct Malfunctions M1 Series Abrams Tank Turret Assembly	AIT	AN	1/2
2. M901 ITV/M981 FISTV VEHICLE MAINTENANCE TASKS	091-45K-2015	Correct Malfunctions of the M981 Turret Electrical System	AIT	MO	1/2
	091-45K-2038	Correct Malfunctions on the M981 Turret Hydraulic System	AIT	AN	1/2
3. M109 SERIES SELF PROPELLED HOWITZER MAINTENANCE TASKS	091-45K-2022	Correct Malfunctions of the M109 Series Traversing Mechanism	AIT	QT	1/2
	091-45K-2023	Correct Malfunctions of the M109 Series Cab Electrical System	AIT	QT	1/2
	091-45K-2024	Correct Malfunctions of the M109 Series Cab Hydraulic System	AIT	AN	1/2
	091-45K-2025	Correct Malfunctions of the M109 Series Howitzer Cannon and Mount Assembly	AIT	AN	1/2
	091-45K-2041	Correct Malfunctions on the M109 Series Howitzer Loader Rammer	AIT	QT	1/2
4. M2/3 BRADLEY FIGHTING VEHICLE (BFV) TURRET	091-45K-2029	Correct Malfunctions on the M2/3 BFV Turret Drive Assembly	AIT	QT	1/2

CRITICAL TASKS

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
MAINTENANCE TASKS					
	091-45K-2031	Correct Malfunctions on M2/3 BFV Turret Electrical System	AIT	QT	1/2
	091-45K-2073	Correct Malfunctions on M2/3 BFV 25 MM Gun and TOW Launcher	UNIT	AN	1/2
5. TMDE, BDAR, AND SERVICES TASKS	091-45K-2033	Perform Cannon Tube Evaluation	AIT	SA	1/2
	091-45K-2046	Operate Test, Measurement, and Diagnostic Equipment (TMDE)	AIT	AN	1/2
6. M1A2 ASI 45K (ASIK4)	091-45K-K4001	Operate M1A2 Software of Loader/Verifier(CTS III)	ASI/SD	SA	1/2
	091-45K-K4002	Operate M1A2 Direct Support Electrical Systems Test Set (M1A2 DSESTS) to Test M1A2 Line Replaceable Units (LRU's)	ASI/SD	SA	1/2
	091-45K-K4003	Repair Turret Remote Switching Module (T/RSM)	ASI/SD	SA	1/2
	091-45K-K4004	Repair Turret Electronics Unit (H/TEU)	ASI/SD	SA	1/2
	091-45K-K4005	Repair Radio Interface Unit (RIU)	ASI/SD	SA	1/2
	091-45K-K4006	Repair Commander's Control Handle Assembly (CCHA)	ASI/SD	SA	1/2
	091-45K-K4007	Test Position/Navigation Unit (POS/NAV)	ASI/SD	SA	1/2
	091-45K-K4008	Repair Hull Power Distribution Unit (HPDU)	ASI/SD	SA	1/2
	091-45K-K4009	Repair Hull Remote Switching Module (HRSM)	ASI/SD	SA	1/2
	091-45K-K4010	Repair Driver's Integrated Display (DID)	ASI/SD	SA	1/2
	091-45K-K4011	Repair Digital Electronic Control Unit (DECU)	ASI/SD	SA	1/2
	091-45K-K4012	Repair Analog Input Module (AIM)	ASI/SD	SA	1/2
Skill Level 3					
7. COMMON LOGISTICS TASKS	091-CLT-3001	Manage a Shop Safety Program	BNCOC	AN	3
	091-CLT-3002	Maintain a Publications Library	BNCOC	AN	3
	091-CLT-3003	Establish Maintenance Facilities	BNCOC	AN	3

CRITICAL TASKS

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
	091-CLT-3004	Assist in Preparing a Standing Operating Procedure	BNCOC	AN	3
	091-CLT-3005	Manage Tool Control Procedures	BNCOC	AN	3
	091-CLT-3006	Manage Key Control Procedures	BNCOC	AN	3
	091-CLT-3007	Manage the TMDE Calibration Program	BNCOC	AN	3
	091-CLT-3008	Recon Terrain/Route	BNCOC	AN	3
	091-CLT-3009	Supervise Maintenance Operations	BNCOC	AN	3
	091-CLT-3010	Interpret Maintenance Operational Overlay	BNCOC	AN	3
	091-CLT-3011	Deploy Maintenance Support Teams	BNCOC	AN	3
	091-CLT-3012	Manage the Standard Army Maintenance System (SAMS)	BNCOC	AN	3
8. TECHNICAL TASKS	091-45K-3002	Perform Diagnostic Procedures on 5.56 MM M16 Series Rifle/Carbine	BNCOC	AN	3
	091-45K-3004	Perform Diagnostic Procedures on 5.56 MM M249 Machine Gun	BNCOC	AN	3
	091-45K-3008	Perform Diagnostic Procedures on 40 MM MK 19 Series Machine Gun	BNCOC	AN	3
	091-45K-3015	Perform Diagnostic Procedures on Gunner's Auxiliary Sight Assembly	BNCOC	AN	3
	091-45K-3020	Perform Diagnostic Procedures on Commander's Weapon Station Sight	BNCOC	AN	3
	091-45K-3029	Perform Diagnostic Procedures on Elbow Telescopes	BNCOC	AN	3
	091-45K-3039	Perform Diagnostic Procedures on M728/CEV Cannon Recoil System	UNIT	AN	3
	091-45K-3042	Perform Diagnostic Procedures on M109 Series Howitzer Loader Rammer System	BNCOC	AN	3
	091-45K-3046	Perform Diagnostic Procedures on M728 Traversing System	UNIT	AN	3
	091-45K-3051	Perform Diagnostic Procedures on M728 Elevating Systems	UNIT	AN	3
	091-45K-3059	Perform Diagnostic Procedures on M728 Electrical Power Distribution System	UNIT	AN	3
	091-45K-3062	Perform Diagnostic Procedures on M901/M981 Electrical System	BNCOC	AN	3

CRITICAL TASKS

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
	091-45K-3064	Perform Diagnostic Procedures on M728 Electrical Firing System	UNIT	AN	3
	091-45K-3068	Perform Diagnostic Procedures on M728 Hydraulic Systems	UNIT	AN	3
	091-45K-3069	Perform Diagnostic Procedures on M119 Series Light Towed Howitzer	UNIT	AN	3
	091-45K-3070	Perform Diagnostic Procedures on M2/3 BFV 25 MM Gun and Tow Launcher	BNCOC	AN	3
	091-45K-3071	Perform Diagnostic Procedures on M901/M981 Hydraulic	BNCOC	MO	3
	091-45K-3075	Perform Diagnostic Procedures on M120 Series Mortar System	BNCOC	AN	3
	091-45K-3076	Perform Diagnostic Procedures on Semi-Automatic 9 MM Pistol	BNCOC	AN	3
	091-45K-3077	Perform Diagnostic Procedures on .50 CAL M2 Series Machine Gun	BNCOC	AN	3
	091-45K-3078	Perform Diagnostic Procedures on 7.62 MM M240 Series Machine Gun	BNCOC	AN	3
	091-45K-3079	Perform Diagnostic Procedures on M242 Automatic Gun	BNCOC	AN	3
	091-45K-3080	Perform Diagnostic Procedures on M198 Howitzer	BNCOC	AN	3
	091-45K-3081	Perform Cannon Tube Evaluation	BNCOC	AN	3
	091-45K-3082	Perform Diagnostic Procedures of M1 Series Abrams Tank Line Replaceable Unit	BNCOC	AN	3
	091-45K-3083	Perform Diagnostic Procedures on Gunner's Primary Sight	BNCOC	AN	3
	091-45K-3084	Perform Diagnostic Procedures on laser Designator (G/VLLD and LTD)	BNCOC	AN	3
	091-45K-3085	Perform Diagnostic Procedures on M117 Series Panoramic Telescope	BNCOC	AN	3
	091-45K-3086	Perform Diagnostic Procedures on M2 Series Aiming Circle	BNCOC	AN	3
	091-45K-3087	Perform Diagnostic Procedures on Upper Tank Periscope on M901/M981	BNCOC	AN	3
	091-45K-3088	Perform Diagnostic Procedures on Fire Control Quadrants	BNCOC	AN	3

CRITICAL TASKS

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
	091-45K-3089	Perform Diagnostic Procedures on M1 Series Gunner's Quadrants	BNCOC	AN	3
	091-45K-3090	Perform Diagnostic Procedures on Telescope and Mount	BNCOC	AN	3
	091-45K-3091	Verify Fire Control Alignment Procedures on Towed and Self-Propelled Howitzer	BNCOC	AN	3
	091-45K-3092	Perform Diagnostic Procedures on M1 Series Aiming Reference Collimator	BNCOC	AN	3
	091-45K-3093	Perform Diagnostic Procedures on M1 Series Abrams Tank Turret Hydraulic System	BNCOC	AN	3
	091-45K-3094	Perform Diagnostic Procedures on M1 Series Abrams Tank Turret Electrical System	BNCOC	AN	3
	091-45K-3095	Perform Diagnostic Procedures on M1 Series Abrams Tank Turret Assembly	BNCOC	AN	3
	091-45K-3096	Perform Diagnostic Procedures on M1 Series Abrams Tank Armament System	BNCOC	AN	3
	091-45K-3097	Perform Diagnostic Procedures on M2/3 BFV Turret Assembly	BNCOC	AN	3
	091-45K-3098	Perform Diagnostic Procedures on M2/3 BFV Turret Electrical System	BNCOC	AN	3
	091-45K-3099	Perform Diagnostic Procedures on M2/3 BFV Turret Drive Assembly	BNCOC	AN	3
	091-45K-3100	Perform Diagnostic Procedures on M109 Series Howitzer Traversing Systems	BNCOC	AN	3
	091-45K-3101	Perform Diagnostic Procedures on M109 Series Howitzer Cab Hydraulic System	BNCOC	AN	3
	091-45K-3102	Perform Diagnostic Procedures on M109 Series Howitzer Cannon and Mount	BNCOC	AN	3
	091-45K-3104	Perform Diagnostic Procedures on M109A6 Howitzer Microclimate Conditioning System (MCS)	BNCOC	AN	3
	091-45K-3105	Perform Diagnostic Procedures on M901/M981 Turret Assembly	BNCOC	AN	3
	091-45K-3106	Perform Diagnostic Procedures on M109 Series Howitzer Cab Electrical System	BNCOC	AN	3
	091-45K-3107	Perform On-System Verification of M981 FISTV	BNCOC	AN	3
	091-45K-3108	Use Test Measurement, and Diagnostic Equipment (TMDE)	BNCOC	AN	3

CRITICAL TASKS

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
	091-45K-3109	Perform Diagnostic Procedures of AN/PVS-6 MELIOS	BNCOC	AN	3
	091-45K-3110	Perform Diagnostic Procedures of M1 Series Abrams Tank Fire Control System Laser Range Finder	BNCOC	AN	3
	091-45K-3111	Perform Diagnostic Procedures on Bradley ISU	BNCOC	AN	3
	091-45K-3112	Perform Diagnostic Procedures on Bradley TOW Missile Launcher	BNCOC	AN	3
	091-45K-3113	Perform Diagnostic Procedures on M109 Series Howitzer Cab and Cab Bearing	BNCOC	AN	3
Skill Level 4					
9. COMMON LOGISTICS MANAGEMENT TASKS	091-CLT-4001	Perform Senior Rater Responsibilities for a Maintenance Section	ANCOC	AN	4
	091-CLT-4002	Supervise Platoon/Section Administrative Procedures	ANCOC	AN	4
	091-CLT-4003	Manage Combat Stress	ANCOC	AN	4
	091-CLT-4004	Ensure Maintenance Operations are in Compliance With the Army Environmental Program	ANCOC	AN	4
	091-CLT-4005	Enforce Compliance With the Shop Safety Program	ANCOC	AN	4
	091-CLT-4006	Coordinate Support for the Maintenance Platoon/Section	ANCOC	AN	4
	091-CLT-4007	Select a Field Maintenance Site	ANCOC	AN	4
	091-CLT-4008	Prepare an Operational Overlay for Maintenance Operations	ANCOC	AN	4
	091-CLT-4009	Control Flow of Work Through the Maintenance Shop	ANCOC	AN	4
	091-CLT-4010	Integrate Automated Logistics Support Systems	ANCOC	AN	4
	091-CLT-4011	Plan Logistics Support for Maintenance Operations	ANCOC	AN	4
	091-CLT-4012	Monitor the Preparation and Disposition of the Army Materiel Status System (AMSS) Reports	ANCOC	AN	4
	091-CLT-4013	Analyze the Prescribed Load List (PLL) Report	ANCOC	AN	4
	091-CLT-4014	Monitor Quality Control Program	ANCOC	AN	4

CRITICAL TASKS

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
	091-CLT-4015	Analyze Bench Stock Listing	ANCOC	AN	4
	091-CLT-4016	Analyze Open Work Request Reconciliation Listing	ANCOC	AN	4
	091-CLT-4017	Analyze Completed Shop Workload Summary	ANCOC	AN	4
	091-CLT-4018	Analyze Shop Deadline and Deferred Workload Listing	ANCOC	AN	4
	091-CLT-4019	Analyze Shop Workload Summary Listing	ANCOC	AN	4
	091-CLT-4020	Maintain Property Accountability	ANCOC	AN	4
	091-CLT-4021	Prepare Standing Operating Procedures for Maintenance Operations	ANCOC	AN	4
	091-CLT-4022	Supervise the Deployment of Company Maintenance Team/Recovery Support Team/Maintenance Support Team	ANCOC	AN	4
	091-CLT-4023	Conduct a Route Reconnaissance for a Maintenance Mission	ANCOC	AN	4
	091-CLT-4024	Conduct an Area Reconnaissance for a Maintenance Mission	ANCOC	AN	4
	091-CLT-4025	Manage Battlefield Maintenance Support	ANCOC	AN	4
	091-CLT-4026	Perform Support Operations NCO Duties	ANCOC	AN	4
	091-CLT-4027	Manage Maintenance Operations at a Maintenance Collection Point	ANCOC	AN	4
	091-CLT-4028	Provide Maintenance Support During Tactical Operations	ANCOC	AN	4

CHAPTER 3
MOS/Skill Level Tasks

Skill Level 1

Subject Area 1: M1 SERIES ABRAMS TANK MAINTENANCE TASKS

Correct Malfunctions on the M1 Series Abrams Tank Armament System
091-45K-2032

Conditions: In a field or garrison environment, given an M1 series Abrams tank, additional tools, TMDE, equipment specified in TMs, artillery and turret mechanic's tool kit, M1 support tool kit, armament shop set, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Correct Malfunctions on the M1 series Abrams tank armament system IAW applicable technical publications. When the task is completed, the M1 series Abrams tank armament system must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools, TMDE, and equipment to correct malfunctions on the M1 series Abrams tank armament system.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform an initial inspection.	—	—
5. Remove main gun tube and commander's weapon station.	—	—
6. Remove armament system components.	—	—
7. Disassemble armament system components.	—	—
8. Inspect armament system components.	—	—
9. Replace the armament system components, as necessary.	—	—
10. Reassemble the armament system components.	—	—
11. Reinstall armament system components, commander's weapon station, and main gun tube.	—	—
12. Perform the final test to verify fault(s) have been corrected.	—	—
13. Annotate corrective actions taken on DA Form 5988-E.	—	—
14. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
SC 4933-95-A12

Related
DA PAM 738-750

References

Required

SC 5180-95-A12
TM 9-2350-264-10-2
TM 9-2350-264-20-2-1
TM 9-2350-264-20-2-2
TM 9-2350-264-20-2-3
TM 9-2350-264-20-2-4
TM 9-2350-264-24-2
TM 9-2350-264-24P-2
TM 9-2350-264-34-2-1
TM 9-2350-264-34-2-2
TM 9-4931-586-12-2&P
TM 9-4931-586-30&P

Related

TM 9-243
TM 9-4931-586-12-1&P

**Correct Malfunctions on the M1 Series Abrams Tank Turret Hydraulic System
091-45K-2034**

Conditions: In a field or garrison environment, given M1 series Abrams tank, Direct Support Electrical Systems Test Sets (DSESTS), multimeter, power supply, STE-M1/FVS, fighting vehicle systems, break out box (BOB), ESD workstation, artillery and turret mechanic's tool kit, special tools, M1 support tool kit, armament shop set, nitrogen, nitrogen purging and charging kit, additional tools, TMDE, equipment specified in TMs, repair parts, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Correct malfunctions on the M1 series Abrams tank turret hydraulic system IAW applicable technical publications. When the task is completed, the M1 series Abrams tank turret hydraulic system must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools, TMDE, and equipment to correct malfunctions on the M1 series Abrams tank turret hydraulic system.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform initial inspection.	—	—
5. Remove the hydraulic power supply system, as required.	—	—
6. Disassemble components/subcomponents, as required.	—	—
7. Inspect components/subcomponents.	—	—
8. Repair or replace components/subcomponents.	—	—
9. Assemble components/subcomponents.	—	—
10. Install hydraulic power supply system components.	—	—
11. Adjust the hydraulic power supply system.	—	—
12. Perform a final operational test to verify fault(s) have been corrected.	—	—
13. Annotate corrective actions taken on the DA Form 5988-E.	—	—
14. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was performed incorrectly and show how to do it correctly.

References

Required

- LO 9-2350-264-12
- SC 4933-95-A12
- SC 5180-95-A12
- TM 9-2350-264-10
- TM 9-2350-264-10-2
- TM 9-2350-264-20-2-1
- TM 9-2350-264-20-2-2
- TM 9-2350-264-20-2-3

Related

- DA PAM 738-750
- TB 43-0142
- TM 9-214
- TM 9-243

References

Required

TM 9-2350-264-20-2-4
TM 9-2350-264-24-2
TM 9-2350-264-24P-2
TM 9-2350-264-34-2-1
TM 9-2350-264-34-2-2

Related

**Correct Malfunctions on the M1 Series Abrams Tank Turret Electrical System
091-45K-2035**

Conditions: In a field or garrison environment, given M1 series Abrams tank, artillery and turret mechanic's tool kit, DSESTS, BOB, STE-M1/FVS, M1 support tool kit, power supply, ESD workstation, nitrogen, nitrogen purging and charging kit, multimeter, armament shop set, additional tools, TMDE, equipment specified in TMs, schematics, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Correct Malfunctions on the M1 series Abrams tank turret electrical system IAW applicable technical publications. When the task is completed, the M1 series Abrams tank turret electrical system must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools, TMDE, and equipment to correct malfunctions on the M1 series Abrams tank turret electrical system.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform an initial inspection.	—	—
5. Troubleshoot turret electrical system on vehicle.	—	—
6. Remove line replaceable units (LRUs), as required.	—	—
7. Troubleshoot LRUs.	—	—
8. Test LRUs.	—	—
9. Replace LRUs, as required.	—	—
10. Perform a final operational test to verify fault(s) have been corrected.	—	—
11. Annotate corrective actions taken on the DA Form 5988-E.	—	—
12. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was performed incorrectly and show how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- TM 750-245-4
- TM 9-2350-264-10-2
- TM 9-2350-264-20-2-1
- TM 9-2350-264-20-2-2
- TM 9-2350-264-20-2-3
- TM 9-2350-264-24-2
- TM 9-2350-264-24P-2
- TM 9-2350-264-34-1-2
- TM 9-2350-264-34-2-1
- TM 9-2350-264-34-2-2
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-2&P
- TM 9-4931-586-12-4&P

Related

- DA PAM 738-750
- TB 43-0142
- TM 9-243

**Correct Malfunctions M1 Series Abrams Tank Turret Assembly
091-45K-2036**

Conditions: In a field or garrison environment, given M1 series Abrams tank, schematics, BOB, multimeter, STE-M1/FVS, artillery and turret mechanic's tool kit, special tools, M1 support tool kit, armament shop set, additional tools, TMDE, equipment specified in TMs, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Troubleshoot the M1 series Abrams tank turret IAW applicable technical publications, and identify malfunction(s) and necessary repair(s).

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Inspect tank turret and subsystems.	—	—
5. Troubleshoot tank turret and subsystems.	—	—
6. Inform supervisor of troubleshooting results.	—	—
7. Annotate corrective actions needed on the DA Form 5988-E.	—	—
8. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- TB 43-0142
- TM 750-245-4
- TM 9-2350-255-10-2
- TM 9-2350-264-10-2
- TM 9-2350-264-20-2-1
- TM 9-2350-264-20-2-2
- TM 9-2350-264-20-2-3
- TM 9-2350-264-24-2
- TM 9-2350-264-24P-2
- TM 9-2350-264-34-2-1
- TM 9-2350-264-34-2-2

Related

- DA PAM 738-750
- TM 9-243

Subject Area 2: M901 ITV/M981 FISTV VEHICLE MAINTENANCE TASKS

**Correct Malfunctions of the M981 Turret Electrical System
091-45K-2015**

Conditions: In a field or garrison environment, given a M981 FISTV, artillery and turret mechanic's tool kit, targeting station control display and break out box (TSCD-BOB), multimeter, continuity test set, armament shop set, targeting head support strut, additional tools, TMDE, electrical connector repair kit, required special/fabricated tools, repair parts, safety equipment, electrical schematics, interconnect diagrams, equipment specified in TMs, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Correct malfunctions on the M981 turret electrical system IAW applicable technical publications. When the task is completed, the M981 turret electrical system must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools, TMDE, and equipment to correct malfunctions on the turret electrical system.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform initial inspection.	—	—
5. Troubleshoot the electrical power distribution system.	—	—
6. Disassemble electrical system cables and components, as required.	—	—
7. Repair/replace electrical system cables and components, as required.	—	—
8. Assemble electrical system cables and components, as required.	—	—
9. Perform the final test to verify fault(s) have been corrected.	—	—
10. Annotate corrective actions taken on the DA Form 5988-E.	—	—
11. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was performed incorrectly and show how to do it correctly.

References

Required

- TM 9-2350-266-10
- TM 9-2350-266-20
- TM 9-2350-266-24P
- TM 9-2350-266-34-1
- TM 9-2350-266-34-2

Related

- DA PAM 738-750
- TM 9-243

**Correct Malfunctions on the M981 Turret Hydraulic System
091-45K-2038**

Conditions: In a field or garrison environment, given M981 (FISTV) fire support team vehicle, artillery and turret mechanic's tool kit, multimeter, continuity test set, (TSCD-BOB) targeting station control display and break out box, armament shop set, meter/yard stick, targeting head support strut, additional tools, TMDE, equipment specified in TMs, repair parts, special/fabricated tools, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Correct malfunctions on the M981 FISTV turret hydraulic system IAW applicable technical publications. When the task is completed, the M981 FISTV must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools, TMDE, and equipment to correct malfunctions on the turret hydraulic system.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform initial inspection.	—	—
5. Test the hydraulic power supply system.	—	—
6. Troubleshoot the hydraulic system.	—	—
7. Disassemble the hydraulic system components.	—	—
8. Repair or replace components.	—	—
9. Assemble the hydraulic system.	—	—
10. Perform a final operational test to verify fault(s) have been corrected.	—	—
11. Annotate corrective actions taken on the DA Form 5988-E.	—	—
12. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was performed incorrectly and show how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- TM 9-214
- TM 9-2350-266-10
- TM 9-2350-266-20
- TM 9-2350-266-24P
- TM 9-2350-266-34-1
- TM 9-2350-266-34-2

Related

- DA PAM 738-750
- TM 9-243

Subject Area 3: M109 SERIES SELF PROPELLED HOWITZER MAINTENANCE TASKS

**Correct Malfunctions of the M109 Series Traversing Mechanism
091-45K-2022**

Conditions: In a garrison or field environment with supervision and assistance, given M109 series howitzer, artillery and turret mechanic's tool kit, gun tube sling, 2-ton lifting device, rope, additional tools, TMDE, equipment specified in TMs, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Correct malfunctions on the M109 series traversing mechanism IAW applicable technical publications. When the task is completed, the M109 series traversing mechanism must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools, TMDE, and equipment to correct malfunctions on the traverse mechanism.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform an initial inspection.	—	—
5. Remove the M109 series howitzer traversing mechanism.	—	—
6. Disassemble the traversing mechanism components, as required.	—	—
7. Inspect the traversing mechanism components, as required.	—	—
8. Repair/replace the traversing mechanism components, as required.	—	—
9. Assemble the traversing mechanism components, as required.	—	—
10. Install the traversing mechanism components, as required.	—	—
11. Adjust the traversing mechanism, as required.	—	—
12. Perform required prevented maintenance check and services (PMCS).	—	—
13. Perform a final operational test to verify fault(s) have been corrected.	—	—
14. Annotate corrective actions taken on the DA Form 5988-E.	—	—
15. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- TM 9-2350-314-20-2-1
- TM 9-2350-314-20-2-2
- TM 9-2350-314-24P-2
- TM 9-2350-314-34-2

Related

- DA PAM 738-750
- SC 5180-95-A12
- TM 9-243

**Correct Malfunctions of the M109 Series Cab Electrical System
091-45K-2023**

Conditions: In a field or garrison environment, given M109 series howitzer, artillery and turret mechanic's tool kit, artillery shop set, additional tools, TMDE, equipment as specified in TMs, multimeter, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Correct malfunctions on the M109 series howitzer cab electrical system IAW applicable technical publications. When the task is completed, the M109 series howitzer cab electrical system must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools, TMDE, and equipment to correct malfunctions on the M109 series cab electrical system.	—	—
3. Practice shop safety and discipline.	—	—
4. Perform an initial inspection.	—	—
5. Initialize AFCS (M109A6 only).	—	—
6. Operate PDIU (M109A6 only).	—	—
7. Troubleshoot electrical system.	—	—
8. Repair or replace components/sub-components as required.	—	—
9. Perform the final operational test to verify fault(s) have been corrected.	—	—
10. Annotate corrective actions taken on the DA Form 5988-E.	—	—
11. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- TM 9-2350-314-10
- TM 9-2350-314-20-2-1
- TM 9-2350-314-20-2-2
- TM 9-2350-314-24P-2
- TM 9-2350-314-34-2

Related

- DA PAM 738-750
- SC 5180-95-A12
- TM 9-243

**Correct Malfunctions of the M109 Series Cab Hydraulic System
091-45K-2024**

Conditions: In a field or garrison environment, given M109 series howitzer, artillery and turret mechanic's tool kit, artillery shop set, additional tools, TMDE, equipment specified in TMs, multimeter, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Correct malfunctions on the M109 series cab hydraulic system IAW applicable technical publications. When the task is completed, the M109 series cab hydraulic system must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools, TMDE, and equipment to correct malfunctions on the cab hydraulic system.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform an initial inspection.	—	—
5. Troubleshoot cab hydraulic system.	—	—
6. Remove hydraulic pump assembly, as required.	—	—
7. Disassemble components/subcomponents, as required.	—	—
8. Inspect components/subcomponents.	—	—
9. Repair or replace components/subcomponents.	—	—
10. Assemble components/subcomponents.	—	—
11. Install hydraulic pump assembly components.	—	—
12. Adjust hydraulic pump assembly system.	—	—
13. Perform required PMCS on hydraulic pump assembly system.	—	—
14. Perform a final operational test to verify fault(s) have been corrected.	—	—
15. Annotate corrective actions taken on the DA Form 5988-E.	—	—
16. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was performed incorrectly and show how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- TM 9-2350-314-10
- TM 9-2350-314-20-2-1
- TM 9-2350-314-20-2-2
- TM 9-2350-314-24P-2
- TM 9-2350-314-34-2

Related

- DA PAM 738-750
- TM 9-243

**Correct Malfunctions of the M109 Series Howitzer Cannon and Mount Assembly
091-45K-2025**

Conditions: In a field or garrison environment, given M109 series howitzer, artillery and turret mechanic's tool kit, 2-ton lifting device, 5-gallon container, M3 oil pump, safety equipment, support block with wedges, gun tube sling, top-off pump, pipe wrench, additional tools, TMDE, and equipment as specified in TMs, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Correct malfunctions on the M109 series howitzer cannon and mount assembly IAW applicable technical publications, and return the cannon and mount assembly to fully mission capable status.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform initial inspection.	—	—
5. Remove the M109 series howitzer cannon and mount assembly components.	—	—
6. Disassemble the M109 series howitzer cannon and mount assembly components.	—	—
7. Inspect the M109 series howitzer cannon and mount assembly components.	—	—
8. Assemble the M109 series howitzer cannon and mount assembly components.	—	—
9. Adjust the M109 series howitzer cannon and mount assembly components.	—	—
10. Perform a final test to verify fault(s) have been corrected.	—	—
11. Annotate corrective actions taken on DA Form 5988-E.	—	—
12. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was performed incorrectly and show how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- TM 9-2350-314-10
- TM 9-2350-314-20-2-1
- TM 9-2350-314-20-2-2
- TM 9-2350-314-24P-2
- TM 9-2350-314-34-2

Related

- DA PAM 738-750
- TM 9-243

**Correct Malfunctions on the M109 Series Howitzer Loader Rammer
091-45K-2041**

Conditions: In a field or garrison environment, given M109 series howitzer, 5 gallon container, M3 oil pump, eye protection, support block with wedges, gun tube sling, rope, artillery and turret mechanic's tool kit, special tools,(OHT) oil hydraulic technical, rags, top off pump, pipe wrench, 2-ton lifting device, small cribbing, additional tools, TMDE, equipment specified in TMs, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Correct malfunctions on the M109 series howitzer loader rammer IAW applicable technical publications. When the task is completed, the M109 series howitzer loader rammer must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools, TMDE, and equipment to correct malfunctions on the turret electrical system.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Remove the M109 series howitzer loader rammer.	—	—
5. Disassemble the M109 series howitzer loader rammer.	—	—
6. Inspect the M109 series howitzer loader rammer.	—	—
7. Repair the M109 series howitzer loader rammer as required.	—	—
8. Assemble the M109 series howitzer loader rammer.	—	—
9. Adjust the M109 series howitzer loader rammer, as required.	—	—
10. Perform a final operational test to verify fault(s) have been corrected.	—	—
11. Annotate corrective actions taken on DA Form 5988-E.	—	—
12. Maintain tools, equipment, and TMDE.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

LO 9-2350-264-12
 SC 4933-95-A12
 SC 5180-95-A12
 TB 43-0142
 TM 9-2350-314-10
 TM 9-2350-314-20-2-1
 TM 9-2350-314-20-2-2
 TM 9-2350-314-24P-2
 TM 9-2350-314-34-2

Related

DA PAM 738-750
 TM 9-243

Subject Area 4: M2/3 BRADLEY FIGHTING VEHICLE (BFV) TURRET MAINTENANCE TASKS

**Correct Malfunctions on the M2/3 BFV Turret Drive Assembly
091-45K-2029**

Conditions: In a field or garrison environment, given M2/3 Bradley Fighting Vehicle (BFV), schematics, artillery and turret mechanic's tool kit, digital multimeter, Daniels electronic repair kit, additional tools, TMDE, equipment specified in TMs, 500-amp power supply, ESD workstation, armament shop set, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Correct malfunctions on the M2/3 BFV turret drive assembly IAW applicable technical publications. When the task is completed, the M2/3 BFV turret must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use tools, TMDE, and equipment to correct malfunctions on the M2/3 BFV turret drive assembly.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform initial inspection.	—	—
5. Disassemble the turret control box (TCB).	—	—
6. Inspect the (TCB).	—	—
7. Test the (TCB).	—	—
8. Reinstall the (TCB).	—	—
9. Disassemble the M2/3 BFV gun elevation drive gear box, as required.	—	—
10. Repair the M2/3 BFV gun elevation drive gear box, as required.	—	—
11. Assemble the M2/3 BFV gun elevation drive gear box, as required.	—	—
13. Maintain tools and equipment.	—	—
13. Annotate corrective actions taken on the DA Form 5988-E.	—	—
14. Perform the final test to verify fault(s) have been corrected.	—	—
14. Adjust the M2/3 BFV gun elevation drive gear box, as required.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- TM 9-2350-284-10-2
- TM 9-2350-284-20-2-1
- TM 9-2350-284-20-2-2
- TM 9-2350-284-20-2-3
- TM 9-2350-284-34-2
- TM 9-2350-284-34-3-2
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-3&P

Related

- DA PAM 738-750
- TM 9-243
- TM 9-4931-586-30&P

**Correct Malfunctions on M2/3 BFV Turret Electrical System
091-45K-2031**

Conditions: In a garrison or field environment, given M2/3 BFV, BOB, STE-M1/FVS, DSESTS with power supply, ESD workstation, additional tools, TMDE, equipment specified in TMs, 500-amp power supply, artillery and turret mechanic's tool kit, digital multimeter, armament shop set, Daniels electronic repair kit, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Correct malfunctions on the M2/3 BFV turret electrical system IAW applicable technical publications. When the task is completed, the M2/3 BFV turret electrical system must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools, TMDE, and equipment to correct malfunctions on the M2/3 BFV turret electrical system.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform an initial inspection.	—	—
5. Remove line replaceable unit (LRUs) and shop replaceable unit (SRUs) for testing as necessary.	—	—
a. Turret control box (TCB).		
b. Gunner's hand station (GHS).		
c. SRUs from the turret distribution box (TDB).		
6. Disassemble, inspect and test LRUs and SRUs.	—	—
a. (TCB).		
b. (GHS).		
c. SRUs from the (TDB).		
7. Reinstall/replace LRUs and SRUs.	—	—
8. Perform the final test to verify fault(s) have been corrected.	—	—
9. Annotate corrective actions taken on the DA Form 5988-E.	—	—
10. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4931-95-A22
- SC 5180-95-A12
- TM 9-2350-284-10-2
- TM 9-2350-284-20-2-1
- TM 9-2350-284-20-2-2
- TM 9-2350-284-20-2-3
- TM 9-2350-284-34-2
- TM 9-2350-284-34-3-2
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-3&P
- TM 9-4931-586-30&P

Related

- DA PAM 738-750
- TM 9-243

**Correct Malfunctions on M2/3 BFV 25 MM Gun and TOW Launcher
091-45K-2073**

Conditions: In a field or garrison environment, given an M2/3 BFV 25mm gun and TOW launcher, artillery and turret mechanic's tool kit, repair parts, additional tools, TMDE, equipment specified in TMs, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Correct malfunctions on M2/3 BFV 25mm gun and TOW launcher IAW applicable technical publications. When the task is completed, the M2/3 BFV 25mm gun and TOW launcher must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools, TMDE, and equipment to correct malfunctions on the M2/3 BFV 25 MM gun and TOW launcher.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform initial inspection.	—	—
5. Troubleshoot the M2/3 BFV 25 MM gun and TOW launcher.	—	—
6. Disassemble M2/3 BFV 25 MM gun and TOW launcher.	—	—
7. Replace M2/3 BFV 25 MM gun and TOW launcher components, as required.	—	—
8. Assemble M2/3 BFV 25 MM gun and TOW launcher.	—	—
9. Perform required PMCS.	—	—
10. Perform a final operational test to verify fault(s) have been corrected.	—	—
11. Annotate corrective actions taken on DA Form 5988-E.	—	—
12. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- TM 9-1005-200-20&P
- TM 9-2350-252-10-2
- TM 9-2350-284-10-2
- TM 9-2350-284-20-2-2
- TM 9-2350-284-20-2-3
- TM 9-2350-284-24P-1
- TM 9-2350-284-34-2
- TM 9-2350-284-34-3-2

Related

- DA PAM 738-750
- TM 9-243

Subject Area 5: TMDE, BDAR, AND SERVICES TASKS

**Perform Cannon Tube Evaluation
091-45K-2033**

Conditions: In a field or garrison environment, given cannon tube or mortar tube, M12 bore erosion gauge with supplement, borescope kit, pullover gauge kit with accessories, vernier caliper, bore casting materials and equipment, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Perform cannon tube evaluation IAW applicable technical publications.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform initial inspection of the cannon/mortar tube.	—	—
5. Perform borescope and measuring procedures.	—	—
6. Perform bore casting procedures.	—	—
7. Evaluate the bore cast.	—	—
8. Determine bore serviceability based on evaluation procedures.	—	—
9. Record findings on DA Form 2408-4.	—	—
10. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- TM 9-1000-202-14
- TM 9-2350-264-34-2-2
- TM 9-4933-258-13&P
- TM 9-6650-235-13&P

Related

- DA PAM 738-750
- TM 9-243

**Operate Test, Measurement, and Diagnostic Equipment (TMDE)
091-45K-2046**

Conditions: In a field or garrison environment, given multimeter, STE-M1/FVS, DSESTS,(SPORT) soldier's portable on-system repair tool, BOB, contact test set version 3 (CTS v.3) contact test set, various electrical components, wiring diagram, DC power supply, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Set up, perform self-test procedures and operate the test, measurement, and diagnostic equipment (TMDE) IAW applicable technical publications.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Practice shop safety and maintenance discipline.	—	—
3. Select and use applicable tools and TMDE.	—	—
4. Set up, perform self-test procedures, and operate the multimeter.	—	—
5. Set up, perform self-test procedures, and operate the STE-M1/FVS.	—	—
6. Set up, perform self-test procedures, and operate the DSESTS.	—	—
7. Set up, perform self-test procedures, and operate the SPORT.	—	—
8. Set up, perform self-test procedures, and operate the BOB.	—	—
9. Set up, perform self-test procedures, and operate the CTS v.3.	—	—
10. Maintain TMDE.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was wrong and how to do it correctly.

References

Required

- TM 9-2350-284-10-2
- TM 9-2350-284-20-2-1
- TM 9-2350-284-20-2-2
- TM 9-2350-284-20-2-3
- TM 9-2350-284-24P-1
- TM 9-2350-284-34-2
- TM 9-2350-284-34-3-2
- TM 9-4910-751-14&P

Related

- DA PAM 738-750
- TM 9-243

Subject Area 6: M1A2 ASI 45K (ASIK4)

**Operate M1A2 Software of Loader/Verifier(CTS III)
091-45K-K4001**

Conditions: In a classroom/lab environment and given Contact Test Set (CTS) AN/PSM 80 (V) 2, Fire Control Electronic Unit (FCEU), Commander's Integrated Display (CID), Gunner's Control Display Panel (GCDP), Electronic Toll Kit, CTS III V2 M1A2 Software Loader/ Verifier, technical publication, additional tools, TMDE, repair parts, equipment specified in TMs. applicable maintenance forms, and supervision/assistance..

Standards: Operat M1A2 Software Loader/Verifier (CTS III) IAW applicable publication. When task is complete, the M1A2 Software Loader/Verifier (CTS III) must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools, TMDE, and equipment	—	—
3. Practice shop safety and maintenace discipline.	—	—
4. Perform and initial inspection.	—	—
5. Identfy components of the M1A2 SLV computer.	—	—
6. Download application sofeware..	—	—
7. Download boot code.	—	—
8. Verify software.	—	—
9. Download test system software Direct Support Electrical System Test Set (DSESTS).	—	—
10. Operate CTS III.	—	—
11. Copy tank software to M1A2 SLV (upload SLV).	—	—
12. Copy software from CD-ROM. (not optical disk)	—	—
13. Verify copy of M1A2 software.	—	—
14. Copy test software from CD-ROM.	—	—
15. Verify copy of test software.	—	—
16. Copy test software to M1A2 SLV (perform maintenance function.	—	—
17. Set SLV time and date.	—	—
18. Download SLV test software.	—	—
19. Download reconfigured software.	—	—
20. Download Tank/LRU	—	—
21. Download complete tank	—	—
22. Secure all tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any steps, show what was done wrong and how to do it correctly.

References

Required

TM 9-2350-288-10-1
TM 9-2350-288-10-2
TM 9-2350-288-20-2-2
TM 9-2350-288-20-2-3
TM 9-2350-288-24P-2
TM 9-4931-586-12-1&P
TM 9-4931-586-12-5&P

Related

DA PAM 738-750
TM 9-243

Operate M1A2 Direct Support Electrical Systems Test Set (M1A2 DSESTS) to Test M1A2 Line Replaceable Units (LRU'S)

091-45K-K4002

Conditions: In a classroom/lab environment given DSESTS M1A2 Support Group, Operate Interface Unit (OIU), General Purpose Interface Unit (GPIA) equipment, Power Supply, tool kit electronic, technical publication, additional tools, TMDE, repair parts, equipment specified in TMs. applicable maintenance forms and supervision/assistance..

Standards: Operate the M1A2 DSESTS and Test Line Replaceable Unit (LRU'S) IAW applicable publication. When task is complete, the M1A2 DSESTS and Line Replaceable Unit (LRU'S) must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publication.	—	—
2. Select and use applicable tools and TMDE equipment.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform an initial inspection.	—	—
5. Setup DSESTS IAW applicable publication.	—	—
6. Operate DSESTS IAW applicable publication.	—	—
7. Operate and perform setup of the GPIA and OIU IAW applicable publication.	—	—
8. Perform all functional self-test on the GPIA core and all plug-in modules IAW applicable publication.	—	—
9. Perform final inspection.	—	—
10. Disassemble DSESTS.	—	—
11. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any steps, show what was done wrong and how to do it correctly.

References

Required

- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-2&P
- TM 9-4931-586-12-3&P
- TM 9-4931-586-12-4&P
- TM 9-4931-586-12-5&P

Related

- DA PAM 738-750
- TM 9-243

**Repair Turret Remote Switching Module (T/RSM)
091-45K-K4003**

Conditions: In a classroom/lab environment given DSESTS M1A2 equipment support group, power supply, Anti-Static Work Mat w/Ground Strap, tool kit electronic, CTS III, technical publication, additional tools, TMDE, repair parts, equipment specified in TMs. applicable maintenance forms, and supervision/assistance..

Standards: Repair Turret Remote Switching Module (H/TRSM), IAW applicable publication. When task is complete, the Turret Remote Switch Module must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools, TMDE, and equipment	—	—
3. Practice shop safety and maintenace discipline.	—	—
4. Perform and initial inspection.	—	—
5. Test the (TRSM).	—	—
6. Perform troubleshooting procedures for the(TRSM).	—	—
7. Repair the (TRSM).	—	—
8. Check external connectors.	—	—
9. Check (DSESTS) message.	—	—
10. Perform corrective action for fault message received on (DSESTS).	—	—
11. Follow instructions in TM.	—	—
12. Verify TRSM repair	—	—
13. Repeat TRSM test IAW publication.	—	—
14. Perform final inspection	—	—
15. Secure all tools and equipment	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any steps, show what was done wrong and how to do it correctly.

References

Required

- SC 5180-95-A12
- TM 9-2350-288-10-1
- TM 9-2350-288-10-2
- TM 9-2350-288-20-2-2
- TM 9-2350-288-20-2-3
- TM 9-2350-288-20-2-4
- TM 9-2350-288-34-2-2
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-4&P
- TM 9-4931-586-12-5&P
- TM 9-4931-586-30&P

Related

- DA PAM 738-750
- TM 9-243

**Repair Turret Electronics Unit (H/TEU)
091-45K-K4004**

Conditions: In a classroom/lab environment given Hull/Turret Electronics Unit (H/TEU), DSESTS M1A2 equipment support group,, power supply, Anti-Static Work Mat w/Ground Strap, tool kit, technical publication, additional tools, TMDE, repair parts, equipment specified in TMs. applicable maintenance forms, and supervision/assistance..

Standards: Repair the Hull/Turret Electronic Unit (H/TEU) IAW applicable technical publications. When task is complete, the H/TEU must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools, TMDE, and equipment	—	—
3. Practice shop safety and maintenace discipline.	—	—
4. Perform and initial inspection.	—	—
5. Test the H/TEU	—	—
6. Perform troubleshooting procedures for the HTEU.	—	—
7. Repair the HTEU.	—	—
8. Check external connectors.	—	—
9. Check (DSESTS) message.	—	—
10. Perform corrective action for fault message received on (DSESTS).	—	—
11. Follow instructions in TM.	—	—
12. Verify H/TEU repair	—	—
13. Repeat H/TEU test IAW publication.	—	—
14. Perform final inspection	—	—
15. Secure all tools and equipment	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any steps, show what was done wrong and how to do it correctly.

References

Required

- TM 9-2350-288-10-1
- TM 9-2350-288-10-2
- TM 9-2350-288-20-2-1
- TM 9-2350-288-20-2-2
- TM 9-2350-288-20-2-3
- TM 9-2350-288-20-2-4
- TM 9-2350-288-34-2-1
- TM 9-2350-288-34-2-2
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-5&P

Related

- DA PAM 738-750
- TM 9-243

**Repair Radio Interface Unit (RIU)
091-45K-K4005**

Conditions: In a classroom/lab environment given Radio Interface Unit (RIU), DSESTS M1A2 Equipment Support Group, power supply, Anti-Static Work Mat w/Ground Strap, tool kit electronic, additional tools, TMDE, repair parts, equipment specified in TMs. applicable maintenance forms and technical publications, and supervision/assistance..

Standards: Repair the Radio Interfac Unit (RIU), IAW applicable publication. When task is complete, the (RIU) must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools, TMDE, and equipment	—	—
3. Practice shop safety and maintenace discipline.	—	—
4. Perform and initial inspection.	—	—
5. Test the RIU	—	—
6. Perform troubleshooting procedures for the RIU.	—	—
7. Repair the RIU.	—	—
8. Check external connectors.	—	—
9. Check (DSESTS) message.	—	—
10. Perform corrective action for fault message received on (DSESTS).	—	—
11. Follow instructions in TM.	—	—
12. Verify RIU repair	—	—
13. Repeat RIU test IAW publication.	—	—
14. Perform final inspection	—	—
15. Secure all tools and equipment	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any steps, show what was done wrong and how to do it correctly.

References

Required

- TM 9-2350-288-10-1
- TM 9-2350-288-10-2
- TM 9-2350-288-20-2-1
- TM 9-2350-288-20-2-2
- TM 9-2350-288-20-2-3
- TM 9-2350-288-20-2-4
- TM 9-2350-288-34-2-1
- TM 9-2350-288-34-2-2
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-5&P

Related

- DA PAM 738-750
- TM 9-243

**Repair Commander's Control Handle Assembly (CCHA)
091-45K-K4006**

Conditions: In a classroom/lab environment given Commander's Control Handle Assembly (CCHA), DSESTS M1A2 Equipment Support Group,, Power Supply , Anti-Static Work Mat w/Ground Strap, tool kit electronic, additional tools, TMDE, repair parts, equipment specified in TMs, applicable maintenance forms, technical publications, and supervision/assistance..

Standards: Repair Commander's Control Handle Assembly (CCHA) IAW applicable publication. When task is complete, the (CCHA) must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools, TMDE, and equipment	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform and initial inspection.	—	—
5. Test the CCHA	—	—
6. Perform troubleshooting procedures for the CCHA.	—	—
7. Repair the CCHA.	—	—
8. Check external connectors.	—	—
9. Check (DSESTS) message.	—	—
10. Perform corrective action for fault message received on (DSESTS).	—	—
11. Follow instructions in TM.	—	—
12. Verify CCHA repair	—	—
13. Repeat CCHA test IAW publication.	—	—
14. Perform final inspection	—	—
15. Secure all tools and equipment	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any steps, show what was done wrong and how to do it correctly.

References

Required

- TM 9-1200-206-34-1
- TM 9-1200-206-34-2
- TM 9-1200-206-34P
- TM 9-2350-288-10-1
- TM 9-2350-288-10-2
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-5&P

Related

- DA PAM 738-750
- TM 9-243

Test Position/Navigation Unit (POS/NAV)

091-45K-K4007

Conditions: In a classroom/lab environment given Position/Navigation Unit (POS/NAV), DSESTS M1A2 Equipment Support Group, Anti-Static Work Mat w/Ground Strap, power supply, tool kit electronic, additional tools, TMDE, repair parts, equipment specified in TMs. applicable maintenance forms and technical publications, and supervision/assistance..

Standards: Test Position/Navigation Unit (POS/NAV) IAW applicable publication. When task is complete, the (POS/NAV) must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools, TMDE, and equipment	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform and initial inspection.	—	—
5. Test the POS/NAV	—	—
6. Perform troubleshooting procedures for the POS/NAV.	—	—
7. Repair the POS/NAV.	—	—
8. Check external connectors.	—	—
9. Check (DSESTS) message.	—	—
10. Perform corrective action for fault message received on (DSESTS).	—	—
11. Follow instructions in TM.	—	—
12. Verify POS/NAV repair	—	—
13. Repeat PAS/NAV test IAW publication.	—	—
14. Perform final inspection	—	—
15. Secure all tools and equipment	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any steps, show what was done wrong and how to do it correctly.

References

Required

- TM 9-2350-288-10-1
- TM 9-2350-288-10-2
- TM 9-2350-288-20-1-1
- TM 9-2350-288-20-1-2
- TM 9-2350-288-20-1-3
- TM 9-2350-288-20-1-4
- TM 9-2350-288-34-2-1
- TM 9-2350-288-34-2-2
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-5&P

Related

- DA PAM 738-750
- TM 9-243

**Repair Hull Power Distribution Unit (HPDU)
091-45K-K4008**

Conditions: In a classroom/lab environment given Hull Power Distribution Unit (HPDU), DSESTS M1A2 equipment support group, Operate Interface , Anti-static work mat w/ground strap, power supply and tool kit electronic, additional tools, TMDE, repair parts, equipment specified in TMs. applicable maintenance forms, technical publications, and supervision/assistance..

Standards: Repair Hull Power Distribution Unit (HPDU) IAW applicable publication. When task is complete, the (HPDU) must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools, TMDE, and equipment	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform and initial inspection.	—	—
5. Test the HPDU	—	—
6. Perform troubleshooting procedures for the HPDU.	—	—
7. Repair the HPDU.	—	—
8. Check external connectors.	—	—
9. Check (DSESTS) message.	—	—
10. Perform corrective action for fault message received on (DSESTS).	—	—
11. Follow instructions in TM.	—	—
12. Verify HPDU repair	—	—
13. Repeat HPDU test IAW publication.	—	—
14. Perform final inspection	—	—
15. Secure all tools and equipment	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any steps, show what was done wrong and how to do it correctly.

References

Required

- TM 9-2350-288-10-1
- TM 9-2350-288-10-2
- TM 9-2350-288-20-2-1
- TM 9-2350-288-20-2-2
- TM 9-2350-288-20-2-3
- TM 9-2350-288-20-2-4
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-5&P

Related

- DA PAM 738-750
- TM 9-243

**Repair Hull Remote Switching Module (HRSM)
091-45K-K4009**

Conditions: In a classroom/lab environment given Hull Remote Switching Module (HRSM), DSESTS M1A2 equipment support, Anti-Static work mat w/ground strap, power supply, tool kit electronic, additional tools, TMDE, repair parts, equipment specified in TMs. applicable maintenance forms, technical publications, and supervision/assistance..

Standards: Repair Hull Remote Switching Module (HRSM). When task is complete, the (HRSM) must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools, TMDE, and equipment	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform and initial inspection.	—	—
5. Test the HRSM	—	—
6. Perform troubleshooting procedures for the HRSM.	—	—
7. Repair the HRSM.	—	—
8. Check external connectors.	—	—
9. Check (DSESTS) message.	—	—
10. Perform corrective action for fault message received on (DSESTS).	—	—
11. Follow instructions in TM.	—	—
12. Verify HRSM repair	—	—
13. Repeat HRSM test IAW publication.	—	—
14. Perform final inspection	—	—
15. Secure all tools and equipment	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any steps, show what was done wrong and how to do it correctly.

References

Required

- TM 9-2350-288-10-1
- TM 9-2350-288-10-2
- TM 9-2350-288-20-2-1
- TM 9-2350-288-20-2-2
- TM 9-2350-288-20-2-3
- TM 9-2350-288-20-2-4
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-4&P

Related

- DA PAM 738-750
- TM 9-243

**Repair Digital Electronic Control Unit (DECU)
091-45K-K4011**

Conditions: In a classroom/lab environment given Digital Electronic Control Unit (DECU), DSESTS M1A2 equipment support group, Anti-Static work mat w/ground strap General Purpose Interface Unit, power supply, tool kit electronic, additional tools, TMDE, repair parts, equipment specified in TMs. applicable maintenance forms, technical publications, and supervision/assistance.

Standards: Repair Digital Electronic Control Unit (DECU). When task is complete, the (DECU) must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools, TMDE, and equipment	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform and initial inspection.	—	—
5. Test the DECU	—	—
6. Perform troubleshooting procedures for the DECU.	—	—
7. Repair the DECU.	—	—
8. Check external connectors.	—	—
9. Check (DSESTS) message.	—	—
10. Perform corrective action for fault message received on (DSESTS).	—	—
11. Follow instructions in TM.	—	—
12. Verify DECU repair	—	—
13. Repeat DECU test IAW publication.	—	—
14. Perform final inspection	—	—
15. Secure all tools and equipment	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any steps, show what was done wrong and how to do it correctly.

References

Required

- TM 9-2350-288-10-1
- TM 9-2350-288-10-2
- TM 9-2350-288-20-1-1
- TM 9-2350-288-20-1-2
- TM 9-2350-288-20-1-3
- TM 9-2350-288-20-1-4
- TM 9-2350-288-34-2-1
- TM 9-2350-288-34-2-2
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-4&P

Related

- DA PAM 738-750
- TM 9-243

**Repair Driver's Integrated Display (DID)
091-45K-K4010**

Conditions: In a classroom/lab environment given Driver's Integrated Display (DID), DSESTS M1A2 equipment support group, Anti-Static work mat w/ground strap, power supply, tool kit electronic, additional tools, TMDE, repair parts, equipment specified in TMs. applicable maintenance forms, technical publications, and supervision/assistance.

Standards: Repair Driver's Integrated Display (DID) IAW applicable publication. When task is complete, the (DID) must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools, TMDE, and equipment	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform and initial inspection.	—	—
5. Test the DID	—	—
6. Perform troubleshooting procedures for the DID.	—	—
7. Repair the DID.	—	—
8. Check external connectors.	—	—
9. Check (DSESTS) message.	—	—
10. Perform corrective action for fault message received on (DSESTS).	—	—
11. Follow instructions in TM.	—	—
12. Verify DID repair	—	—
13. Repeat DID test IAW publication.	—	—
14. Perform final inspection	—	—
15. Secure all tools and equipment	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any steps, show what was done wrong and how to do it correctly.

References

Required

- TM 9-1200-206-34-1
- TM 9-1200-206-34-2
- TM 9-1200-206-34P
- TM 9-2350-288-10-1
- TM 9-2350-288-10-2
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-5&P

Related

- DA PAM 738-750
- TM 9-243

**Repair Analog Input Module (AIM)
091-45K-K4012**

Conditions: In a classroom/lab environment given Analog Input Module (AIM) DSESTS M1A2 equipment support group, Anti-Static work mat w/ground strap, power supply, tool kit electronic, additional tools, TMDE, repair parts, equipment specified in TMs. applicable maintenance forms, technical publications, and supervision/assistance.

Standards: Repair Analog Input Module (AIM) IAW applicable publication. When task is complete, the (AIM) must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools, TMDE, and equipment	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform and initial inspection.	—	—
5. Test the AIM	—	—
6. Perform troubleshooting procedures for the AIM.	—	—
7. Repair the AIM.	—	—
8. Check external connectors.	—	—
9. Check (DSESTS) message.	—	—
10. Perform corrective action for fault message received on (DSESTS).	—	—
11. Follow instructions in TM.	—	—
12. Verify AIM repair	—	—
13. Repeat AIM test IAW publication.	—	—
14. Perform final inspection	—	—
15. Secure all tools and equipment	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any steps, show what was done wrong and how to do it correctly.

References

Required

- TM 9-2350-288-10-1
- TM 9-2350-288-10-2
- TM 9-2350-288-20-1-1
- TM 9-2350-288-20-1-2
- TM 9-2350-288-20-1-3
- TM 9-2350-288-20-1-4
- TM 9-2350-288-34-2-1
- TM 9-2350-288-34-2-2
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-5&P

Related

- DA PAM 738-750
- TM 9-243

Skill Level 3

Subject Area 7: COMMON LOGISTICS TASKS

Manage a Shop Safety Program

091-CLT-3001

Conditions: In a field or garrison environment, given a maintenance site/facility, maintenance personnel, and applicable references.

Standards: Ensured personnel followed all safety procedures, that preventable accidents were avoided, and if accidents occurred that they were properly recorded and reported, IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured all safety references were on hand.	—	—
2. Established and documented goals and requirements for a successful shop safety and accident prevention program.	—	—
3. Briefed and regularly updated subordinates on shop safety program.	—	—
4. Conducted initial safety inspections.	—	—
5. Ensured initial safety concerns and violations were corrected.	—	—
6. Conducted scheduled and unscheduled safety inspections.	—	—
7. Documented safety violations, reported the violations as required, and conducted follow-up inspections to ensure violations were/remained corrected.	—	—
8. Kept necessary records of safety inspections and accident reports.	—	—
9. Ensured MSDS were prepared and maintained as required in applicable work areas.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- AR 190-13
- AR 220-1
- AR 700-138
- AR 750-1
- DA PAM 738-750
- FM 4-30.3
- TB 43-180

Related

- AR 385-10
- AR 385-40
- AR 385-55

**Maintain a Publications Library
091-CLT-3002**

Conditions: In a field or garrison environment, given publications and storage location, local and higher headquarters publications indexes and publications procedures, SOP, and applicable forms and references.

Standards: Ensured required publications were on hand or ordered, publications were arranged and maintained properly, forms/records were properly maintained, and changes were posted IAW applicable references and local procedures.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Determined all publications required by the maintenance shop or section.	—	—
2. Reviewed and updated publications library SOP as needed.	—	—
3. Ensured that technical publications on hand/on order were the most current IAW DA Pam 25-30.	—	—
4. Ensured that doctrinal, training, and organizational publications on hand/on order were the most current IAW DA Pam 25-30 and local listings.	—	—
5. Ensured that administrative publications on hand/on order were the most current IAW DA Pam 25-30.	—	—
6. Ensured that local and higher headquarters publications on hand/on order were the most current IAW DA Pam 25-30 and local listings.	—	—
7. Prepared DA Form 4569 IAW DA Pam 25-33.	—	—
8. Prepared the required transmittal form IAW DA Pam 25-33.	—	—
9. Prepared DA Forms 17 and 17-1 to request local and higher headquarters publications, IAW DA Pam 25-33 and local/higher headquarters' publications requisitioning procedures.	—	—
10. Ensured that published changes were posted to applicable publications IAW DA PAM 25-40 and publication change instructions.	—	—
11. Removed obsolete/rescinded/superseded publications from library IAW DA Pam 25-40 and publication change instructions.	—	—
12. Arranged publications in proper order and in a suitable location IAW DA Pam 25-40.	—	—
13. Labeled binders used for storing library publications IAW AR 25-400-2 applicable) and DA Pam 25-40.	—	—
14. Notified personnel to return loaned publications to the library in a timely manner IAW SOP.	—	—
15. Updated US Army Publishing Agency (USAPA), local, and higher headquarters publications accounts as required IAW DA Pam 25-33 and local/higher headquarters publication account instructions.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

AR 25-400-2
DA PAM 25-30
DA PAM 25-33

Related

AR 25-11

Establish Maintenance Facilities
091-CLT-3003

Conditions: In a field or garrison environment, given a maintenance site, maintenance personnel, applicable equipment, maintenance shop/section SOP, and applicable references.

Standards: Set up a maintenance shop facility suitable for accomplishing necessary maintenance functions IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured applicable references and publications were available.	—	—
2. Identified commander's maintenance requirements for the accomplishment of the unit's mission.	—	—
3. Set up the maintenance facility IAW SOP.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References
Required
FM 4-30.3

Related

**Assist in Preparing a Standing Operating Procedure
091-CLT-3004**

Conditions: In a field or garrison environment, given FM 9-43-1, higher headquarters SOP(s), and commander's guidance.

Standards: Prepared a draft copy of a maintenance shop/section internal or external SOP for supervisor's review, comment, and approval IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured applicable publications were available.	—	—
2. Ensured unit policies and commander's guidance were followed.	—	—
3. Ensured shop operation policies were adequately addressed.	—	—
4. Updated the shop SOP as required.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References
Required
FM 4-30.3

Related

**Manage Tool Control Procedures
091-CLT-3005**

Conditions: In a field or garrison environment, given applicable supply catalog(s), applicable references, and hand receipt forms.

Standards: Managed tool control procedures IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured applicable references were available.	—	—
2. Established policies and procedures for the control of tools.	—	—
3. Ensured all DA Form 2062s were properly filled out and updated.	—	—
4. Ensured tools and equipment were inventoried IAW applicable references.	—	—
5. Ensured tool shortages were annotated on a shortage annex.	—	—
6. Ensured subordinates applied property accountability procedures.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- AR 190-13
- AR 220-1
- AR 385-10
- AR 385-40
- AR 700-138
- AR 750-1
- DA PAM 710-2-1
- FM 101-5-1
- FM 4-30.3

Related

- DA PAM 738-750

Manage Key Control Procedures
091-CLT-3006

Conditions: In a field or garrison environment, given keys, key control rosters, key boxes/cabinets, and applicable publications.

Standards: Managed key control procedures IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured necessary publications were available.	—	—
2. Established key control policies and procedures.	—	—
3. Established key control access rosters.	—	—
4. Ensured personnel were aware of their responsibilities for the security and accountability of keys.	—	—
5. Ensured key control access rosters were properly maintained and adhered to.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

- Required**
- AR 190-13
- AR 190-51

Related

**Manage the TMDE Calibration Program
091-CLT-3007**

Conditions: In a field or garrison environment, given TMDE, maintenance personnel, and applicable references.

Standards: Managed the TMDE calibration program IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured necessary publications were available.	—	—
2. Reviewed and updated TMDE computer printout list.	—	—
3. Ensured PMCS and inventory of all TMDE and auxiliary equipment are conducted, as required.	—	—
4. Ensured TMDE was turned in for calibration IAW computer printouts.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
AR 750-43
TB 43-180

Related

**Recon Terrain/Route
091-CLT-3008**

Conditions: In a field environment, given a maintenance situation/operations order (OPORD), operational overlay, grid coordinates of destination, vehicle with personnel, and applicable references.

Standards: Performed a route/terrain reconnaissance, and selected the most appropriate route to follow or the most appropriate location to set up a maintenance site, IAW maintenance situation/OPORD and applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured necessary equipment and publications were available.	—	—
2. Performed a map recon of the terrain and route.	—	—
3. Selected personnel for recon team.	—	—
4. Reconned route to determine best access to destination and to ensure safety of personnel and equipment.	—	—
5. Reconned terrain to determine suitability for maintenance site use, to determine best avenues of entry and exit, and to ensure safety of personnel and equipment.	—	—
6. Reported findings and conclusions to supervisors.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
FM 4-30.3
FM 5-170

Related

**Supervise Maintenance Operations
091-CLT-3009**

Conditions: In a field or garrison environment, given maintenance personnel, equipment, maintenance facility/site, SOPs, and applicable references.

Standards: Established and maintained an effective maintenance shop operation IAW SOPs and applicable references.

Performance Steps

1. Ensure unit maintenance procedures are IAW AR 750-1, DA Pam 750-35 and local major command (MACOM) policies.
 - a. Review unit standing operating procedures (SOP) for maintenance.
 - b. Inform unit personnel of changes in policy and new policy that impacts unit SOP
2. Provide technical assistance to unit maintenance activities.
 - a. Inspect unit maintenance operations
 - b. Identify shortcomings
 - c. Make recommendations for corrective action.
 - d. provide training in maintenance procedures.
3. Provide maintenance management to units.
 - a. Review reports (MCRS and ULLS-G).
 - b. Coordinate with higher level maintenance activities
 - c. Direct cross-leveling of maintenance assets/workload.
 - d. Prioritize maintenance efforts of units.

Performance Measures

	<u>GO</u>	<u>NO GO</u>
1. Reviewed unit SOP as scheduled	—	—
2. Compared unit SOP against standards set in 750-35-35 (Aug 94), Pg.	—	—
3. Completed regular inspection of unit operations.	—	—
4. Compared unit operations against standards in AR 750-1, Da Pam 738-750 and DA 750, and DA Pam 750-35.	—	—
5. Inspect environmental protection practices for compliance.	—	—
6. Review safety program practices for compliance with AR 220-1.	—	—
7. Recorded and submitted deficiencies to proper personnel for correction.	—	—
8. Recorded training needs.	—	—
9. Coordinated with appropriate personnel to provide needed training.	—	—
10. Reviewed MCSR for accuracy and compliance with standards in AR 700-138, ADSM-25-L3N-AWA-EUM, and AISM -25-L3Q-AWC-ZZZ-CG.	—	—
11. Coordinated with appropriate maintenance level to correct maintenance discrepancies.	—	—
12. Coordinated with TRADOC and AMC to ensure that emerging issues are addressed appropriately at the unit.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References**Required**

AR 190-51
AR 385-10
AR 385-40
AR 385-55
AR 600-55
AR 700-4
AR 710-2
AR 725-50
AR 735-11-1
AR 735-5
AR 750-43
DA PAM 25-30
DA PAM 710-2-2
DA PAM 738-750
DA PAM 750-1
FM 4-30.3

Related

**Interpret Maintenance Operational Overlay
091-CLT-3010**

Conditions: In a field or garrison environment, given an operational overlay, map, maintenance situation/OPORD, and applicable references.

Standards: Interpreted the maintenance operational overlay by identifying key features and elements of the area of operation IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured necessary references and materials were available.	—	—
2. Identified mapping symbols on the operational overlay.	—	—
3. Identified key features of the map and operational overlay.	—	—
4. Identified key elements of the area of operation on the map and operational overlay.	—	—
5. Updated the operational overlay, as necessary.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

- Required**
- FM 101-5-1
- FM 4-30.3
- FM 5-170

Related

**Deploy Maintenance Support Teams
091-CLT-3011**

Conditions: In a field or garrison environment, given a request for maintenance support/maintenance situation, map, operational overlay, grid coordinates of destination, vehicle(s), equipment, maintenance personnel, and applicable references.

Standards: Deployed the maintenance support team IAW the maintenance situation/request for maintenance support and applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Reviewed the request for maintenance support/maintenance situation.	—	—
2. Determined personnel and equipment requirements necessary to perform the mission.	—	—
3. Identified available resources for the support team, including personnel with applicable MOSs, vehicle(s), tools, test equipment, publications, repair parts, time, and facilities as necessary.	—	—
4. Determined requirements for defending the team.	—	—
5. Briefed the team on the mission.	—	—
a. Reviewed operational overlay.		
b. Conducted a map recon of the route and destination.		
6. Deployed the maintenance support team.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
FM 4-30.3

Related
FM 101-5-1
FM 5-170

**Manage the Standard Army Maintenance System (SAMS)
091-CLT-3012**

Conditions: In a field or garrison environment, given a computer system(s) with SAMS-1 software, database of equipment files, SAMS operator, and applicable references.

Standards: Supervised SAMS-1 functions of a direct support (DS)-level maintenance shop IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured necessary equipment and publications were available.	—	—
2. Ensured SAMS operator was adequately trained.	—	—
3. Reviewed the SAMS-1 system and the flow of information to and from system interfaces.	—	—
4. Reviewed the purpose and use of SAMS-1 categories and codes.	—	—
5. Supervised the processing of maintenance requests (DA Form 2407).	—	—
6. Interpreted SAMS-1 reports to identify maintenance trends and problems. <ul style="list-style-type: none"> a. bench stock listing (AHN-023). b. shop section summary (AHN-006). c. work order detail (AHN-018). d. shop stock list (AHN-002). e. production backlog (AHN-022). f. equipment status listing (AHN-021). 	—	—
7. Requested and interpreted ad hoc reports as necessary.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

AIMS 18-L21-AHN-BUR-UM
AIMS 18-L26-AHO-BUR-EM
DA PAM 738-750

Related

Subject Area 8: TECHNICAL TASKS

**Perform Diagnostic Procedures on 5.56 MM M16 Series Rifle/Carbine
091-45K-3002**

Conditions: In a field or garrison environment, given an M16 series rifle, small arms tool kit, (gauge set (DS) M16 rifle), trigger pull measuring fixture, additional tools, repair parts, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on 5.56 mm M16 series rifle/carbine IAW applicable technical publications. When the task is completed, the rifle/carbine must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the rifle/carbine.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the M16 series rifle/carbine is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the rifle/carbine is fully mission-capable.	—	—
15. Perform the preembarkation inspection, if necessary.	—	—
16. Perform annual gauging, if necessary.	—	—
17. Critique personnel on their job performance.	—	—
18. Ensure maintenance forms are completed, as required.	—	—
19. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

FM 23-9
SC 4933-95-A11
SC 5180-95-A07
TB 9-1000-247-34
TM 9-1005-301-30
TM 9-1005-319-10
TM 9-1005-319-23&P

Related

DA PAM 738-750
TM 9-243

**Perform Diagnostic Procedures on 5.56 MM M249 Machine Gun
091-45K-3004**

Conditions: In a field or garrison environment, given an M249 series machine gun, small arms tool kit, special tools, additional tools, repair parts, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on 5.56 mm M249 machine gun IAW applicable technical publications. When the task is completed, the machine gun must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the machine gun.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Disassemble the machine gun.	—	—
8. Diagnose fault(s) and determine maintenance action to be performed.	—	—
9. Identify repair parts and requisition, if required.	—	—
10. Assemble the machine gun.	—	—
11. Assign personnel to perform necessary repairs.	—	—
12. Ensure all safety precautions and procedures are followed.	—	—
13. Provide assistance when necessary.	—	—
14. Ensure the machine gun is repaired to acceptable standards.	—	—
15. Conduct an in-process inspection.	—	—
16. Perform a final inspection to ensure the machine gun is fully mission-capable.	—	—
17. Perform a preembarkation inspection, if necessary.	—	—
18. Perform annual gauging, if necessary.	—	—
19. Critique personnel on their job performance.	—	—
20. Ensure maintenance forms are completed, as required.	—	—
21. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
FM 23-14

Related
DA PAM 738-750

References

Required

SC 5180-95-A07

TM 9-1005-201-10

TM 9-1005-201-23&P

TM 9-1005-301-30

Related

TM 9-243

**Perform Diagnostic Procedures on 40 MM MK 19 Series Machine Gun
091-45K-3008**

Conditions: In a field or garrison environment, given a 40 mm MK19 series machine gun, tripod or fabricated vise, five rounds, basic issue items (BII), small arms tool kit, special tools, replacement parts, additional tools, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures and technical inspections on 40 mm MK19 series machine gun IAW applicable technical publications. When the task is completed, the machine gun must be fully mission- capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the machine gun.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Disassemble the machine gun.	—	—
8. Diagnose fault(s) and determine maintenance action to be performed.	—	—
9. Identify repair parts and requisition, if required.	—	—
10. Assemble the machine gun.	—	—
11. Assign personnel to perform necessary repairs.	—	—
12. Ensure all safety precautions and procedures are followed.	—	—
13. Provide assistance when necessary.	—	—
14. Ensure the machine gun is repaired to acceptable standards.	—	—
15. Conduct an in-process inspection.	—	—
16. Perform a final inspection to ensure the machine gun is fully mission-capable.	—	—
17. Perform a detailed technical inspection (DTI), if necessary.	—	—
18. Perform a limited technical inspection (LTI), if necessary.	—	—
19. Perform barrel gauging, if necessary.	—	—
20. Critique personnel on their job performance.	—	—
21. Ensure maintenance forms are completed, as required.	—	—
22. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

FM 23-27
SC 4933-95-A11
SC 5180-95-A07
TM 9-1010-230-10
TM 9-1010-230-23&P

Related

DA PAM 738-750
TM 9-243

**Perform Diagnostic Procedures on Gunner's Auxiliary Sight Assembly
091-45K-3015**

Conditions: In a field or garrison environment, given gunner's auxiliary sight (GAS), nitrogen purging and charging kit, nitrogen, lens paper, test stand/holding fixture, spanner wrench, electronic system maintenance tool kit, dioptometer, power supply, multimeter, optical cleaning solution, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on the GAS assembly IAW applicable technical publications. When the task is completed, the GAS assembly must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, purge and charge, and test the GAS.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the GAS is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Ensure personnel perform nitrogen purging and charging, as required.	—	—
15. Perform a final inspection/test to ensure the GAS is fully mission-capable.	—	—
16. Critique personnel on their job performance.	—	—
17. Ensure maintenance forms are completed, as required.	—	—
18. Ensure tools, TMDE, and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4931-95-CL-A07
- SC 4931-95-CL-A09
- TM 9-1200-206-34-1
- TM 9-1200-206-34-2
- TM 9-1200-206-34-3
- TM 9-1200-206-34P

Related

- DA PAM 738-750
- TM 9-243

**Perform Diagnostic Procedures on Commander's Weapon Station Sight
091-45K-3020**

Conditions: In a field or garrison environment, given CWSS, nitrogen purging and charging kit, nitrogen, lens paper, test stand/holding fixture, spanner wrench, electronic system maintenance tool kit, diptometer, power supply, multimeter, optical cleaning solution, additional tools, repair parts, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on the CWSS IAW applicable technical publications. When the task is completed, the CWSS must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capable/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, purge and charge, and test the CWSS.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the CWSS is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Ensure personnel perform nitrogen purging and charging, as required.	—	—
15. Perform a final inspection/test to ensure the CWSS is fully mission-capable.	—	—
16. Critique personnel on their job performance.	—	—
17. Ensure maintenance forms are completed, as required.	—	—
18. Ensure tools, TMDE, and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4931-95-CL-A07
- SC 4931-95-CL-A09
- TM 9-1200-206-34-1
- TM 9-1200-206-34-2
- TM 9-1200-206-34-3
- TM 9-1200-206-34P

Related

- DA PAM 738-750
- TM 9-243

**Perform Diagnostic Procedures on Elbow Telescopes
091-45K-3029**

Conditions: In a field or garrison environment, given an M198 towed howitzer, M138 elbow telescope, artillery and turret mechanic's tool kit, M198 field artillery tool kit, special tools, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M198 elbow telescope IAW applicable technical publications, and replace the M138 elbow telescope if necessary. When the task is completed, the elbow telescope must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, replace, and test the elbow telescope.	—	—
5. Inspect the M138 elbow telescope eyepiece focus.	—	—
6. Replace the M138 elbow telescope, if necessary.	—	—
7. Perform a final inspection to ensure the elbow telescope is fully mission-capable.	—	—
8. Ensure maintenance forms are completed, as required.	—	—
9. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 4931-95-CL-A07
 SC 4931-95-CL-A09
 TM 9-1240-400-34&P

Related

DA PAM 738-750
 TM 9-243

**Perform Diagnostic Procedures on M728/CEV Cannon Recoil System
091-45K-3039**

Conditions: In a field or garrison environment, given an M728/CEV cannon recoil system, additional/special tools, repair parts, test equipment, measuring devices, and applicable technical publications.

Standards: Perform diagnostic procedures on M728/CEV cannon recoil system IAW applicable technical publications. When the task is completed, the cannon recoil system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the M728/CEV cannon recoil system.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Disassemble the M728/CEV cannon recoil system.	—	—
8. Diagnose fault(s) and determine maintenance action to be performed.	—	—
9. Identify parts and requisition, if required.	—	—
10. Assemble the M728/CEV cannon recoil system.	—	—
11. Assign personnel to perform necessary repairs.	—	—
12. Ensure all safety precautions and procedures are followed.	—	—
13. Provide assistance when necessary.	—	—
14. Ensure the M728/CEV cannon recoil system is repaired to acceptable standards.	—	—
15. Conduct an in-process inspection.	—	—
16. Perform a final inspection to ensure the M728/CEV cannon recoil system is fully mission-capable.	—	—
17. Critique personnel on their job performance.	—	—
18. Ensure maintenance forms are completed, as required.	—	—
19. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- TM 9-2350-222-10-2

Related

- DA PAM 738-750
- TM 9-243

References

Required

TM 9-2350-222-10-3
TM 9-2350-222-20-2-2
TM 9-2350-222-20-2-3-1
TM 9-2350-222-20P-2
TM 9-2350-222-24P
TM 9-2350-222-34-2-2
TM 9-2350-222-34-2-3
TM 9-2350-222-34-2-4
TM 9-2350-222-34P-2

Related

**Perform Diagnostic Procedures on M109 Series Howitzer Loader Rammer System
091-45K-3042**

Conditions: In a field or garrison environment, given M109 series howitzer, artillery and turret mechanic's tool kit, special tools, additional tools, TMDE, repair parts, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M109 series howitzer loader rammer system IAW applicable technical publications. When the task is completed, the M109 series howitzer loader rammer system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the M109 series howitzer loader rammer system.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the M109 series howitzer loader rammer system is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the M109 series howitzer loader rammer system is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 4933-95-CL-A06
- TM 9-2350-311-10
- TM 9-2350-311-20-2

Related

- DA PAM 738-750
- TM 9-243

References

Required

TM 9-2350-311-24P-2
TM 9-2350-311-34-2
TM 9-2350-314-10
TM 9-2350-314-20-2-1
TM 9-2350-314-24P-2
TM 9-2350-314-34-2

Related

**Perform Diagnostic Procedures on M728 Traversing System
091-45K-3046**

Conditions: In a field or garrison environment, given an M728 traversing system, additional/special tools, repair parts, test equipment, measuring devices, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M728 traversing system IAW applicable technical publications. When the task is completed, the M728 traversing system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the M728 traversing system.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Disassemble the M728 traversing system.	—	—
8. Diagnose fault(s) and determine maintenance action to be performed.	—	—
9. Identify repair parts and requisition, if required.	—	—
10. Assemble the M728 traversing system.	—	—
11. Assign personnel to perform necessary repairs.	—	—
12. Ensure all safety precautions and procedures are followed.	—	—
13. Provide assistance when necessary.	—	—
14. Ensure the M728 traversing system is repaired to acceptable standards.	—	—
15. Conduct an in-process inspection.	—	—
16. Perform a final inspection to ensure the M728 traversing system is fully mission-capable.	—	—
17. Critique personnel on their job performance.	—	—
18. Ensure maintenance forms are completed, as required.	—	—
19. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
LO 9-2350-222-12
SC 4933-95-A12
SC 5180-95-A12

Related
DA PAM 738-750
TM 9-243

References

Required

TM 9-2350-222-10-2
TM 9-2350-222-10-3
TM 9-2350-222-20-2-2
TM 9-2350-222-20-2-3-1
TM 9-2350-222-20P-2
TM 9-2350-222-24P
TM 9-2350-222-34-2-2
TM 9-2350-222-34-2-3
TM 9-2350-222-34P-2

Related

**Perform Diagnostic Procedures on M728 Elevating Systems
091-45K-3051**

Conditions: In a field or garrison environment, given an M728 elevating system, additional/special tools, repair parts, test equipment, measuring devices, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M728 elevating system IAW applicable technical publications. When the task is completed, the M728 elevating system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the M728 elevating system.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Disassemble the M728 elevating system.	—	—
8. Diagnose fault(s) and determine maintenance action to be performed.	—	—
9. Identify repair parts and requisition, if required.	—	—
10. Assemble the M728 elevating system.	—	—
11. Assign personnel to perform necessary repairs.	—	—
12. Ensure all safety precautions and procedures are followed.	—	—
13. Provide assistance when necessary.	—	—
14. Ensure the M728 elevating system is repaired to acceptable standards.	—	—
15. Conduct an in-process inspection.	—	—
16. Perform a final inspection to ensure the M728 elevating system is fully mission-capable.	—	—
17. Critique personnel on their job performance.	—	—
18. Ensure maintenance forms are completed, as required.	—	—
19. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
LO 9-2350-222-12
SC 4933-95-A12
SC 5180-95-A12

Related
DA PAM 738-750
TM 9-243

References

Required

TM 9-2350-222-10-2
TM 9-2350-222-10-3
TM 9-2350-222-20-2-2
TM 9-2350-222-20-2-3-1
TM 9-2350-222-20P-2
TM 9-2350-222-24P
TM 9-2350-222-34-2-2
TM 9-2350-222-34-2-3
TM 9-2350-222-34P-2

Related

**Perform Diagnostic Procedures on M728 Electrical Power Distribution System
091-45K-3059**

Conditions: In a field or garrison environment, given an M728 electrical power distribution system, additional/special tools, repair parts, test equipment, measuring devices, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M728 electrical power distribution system IAW applicable technical publications. When the task is completed, the M728 electrical power distribution system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the M728 electrical power distribution system.	—	—
5. Perform initial inspection.	—	—
6. Trace schematics.	—	—
7. Perform troubleshooting procedures.	—	—
8. Diagnose fault(s) and determine maintenance action to be performed.	—	—
9. Identify repair parts and requisition, if required.	—	—
10. Assign personnel to perform necessary repairs.	—	—
11. Ensure all safety precautions and procedures are followed.	—	—
12. Provide assistance when necessary.	—	—
13. Ensure the M728 electrical power distribution system is repaired to acceptable standards.	—	—
14. Conduct an in-process inspection.	—	—
15. Perform a final inspection to ensure the M728 electrical power distribution system is fully mission- capable.	—	—
16. Critique personnel on their job performance.	—	—
17. Ensure maintenance forms are completed, as required.	—	—
18. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

LO 9-2350-222-12
SC 4933-95-A12
SC 5180-95-A12

Related

702-091-0728-B
TM 9-243

References

Required

TM 9-2350-222-10-2
TM 9-2350-222-10-3
TM 9-2350-222-20-2-2
TM 9-2350-222-20-2-3-1
TM 9-2350-222-20P-2
TM 9-2350-222-24P
TM 9-2350-222-34-2-1
TM 9-2350-222-34-2-2
TM 9-2350-222-34-2-3
TM 9-2350-222-34P-2

Related

**Perform Diagnostic Procedures on M901/M981 Electrical System
091-45K-3062**

Conditions: In a field or garrison environment, given an M901/M981 FISTV, artillery and turret mechanic's tool kit, multimeter, continuity test set, TSCD-BOB, additional tools, TMDE, equipment specified in TMs, repair parts, armament shop set, meter/yard stick, targeting head support strut, special tools, fabricated tools, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M901/ M981 FISTV electrical system IAW applicable technical publications. When the task is completed, the M901/M981 FISTV electrical system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair, and test the electrical system.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the M901 ITV or M981 FISTV electrical system is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure that the M901 ITV or M981 FISTV electrical system is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 4933-95-A12
 SC 5180-95-A12
 TM 9-2350-259-20

Related

DA PAM 738-750
 TM 9-243

References

Required

TM 9-2350-259-24P

TM 9-2350-259-34

TM 9-2350-266-20

TM 9-2350-266-24P

Related

**Perform Diagnostic Procedures on M728 Electrical Firing System
091-45K-3064**

Conditions: In a field or garrison environment, given an M728 electrical firing system, additional/special tools, repair parts, test equipment, measuring devices, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M728 electrical firing system IAW applicable technical publications. When the task is completed, the M728 electrical firing system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the M728 electrical firing system.	—	—
5. Perform initial inspection.	—	—
6. Trace schematics.	—	—
7. Perform troubleshooting procedures.	—	—
8. Diagnose fault(s) and determine maintenance action to be performed.	—	—
9. Identify repair parts and requisition, if required.	—	—
10. Assign personnel to perform necessary repairs.	—	—
11. Ensure all safety precautions and procedures are followed.	—	—
12. Provide assistance when necessary.	—	—
13. Ensure the M728 electrical firing system is repaired to acceptable standards.	—	—
14. Conduct an in-process inspection.	—	—
15. Perform a final inspection to ensure the M728 electrical firing system is fully mission-capable.	—	—
16. Critique personnel on their job performance.	—	—
17. Ensure maintenance forms are completed, as required.	—	—
18. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- TM 9-2350-222-10-2
- TM 9-2350-222-10-3
- TM 9-2350-222-20-2-2
- TM 9-2350-222-20-2-3-1

Related

- DA PAM 738-750
- TM 9-243

References

Required

TM 9-2350-222-20P-2
TM 9-2350-222-24P
TM 9-2350-222-34-2-2
TM 9-2350-222-34-2-3
TM 9-2350-222-34P-2

Related

**Perform Diagnostic Procedures on M728 Hydraulic Systems
091-45K-3068**

Conditions: In a field or garrison environment, given an M728 hydraulic system, additional/special tools, repair parts, test equipment, measuring devices, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on an M728 hydraulic system IAW applicable technical publications. When the task is completed, the M728 hydraulic system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the M728 hydraulic system.	—	—
5. Perform initial inspection.	—	—
6. Trace schematics.	—	—
7. Perform troubleshooting procedures.	—	—
8. Disassemble the M728 hydraulic system.	—	—
9. Diagnose fault(s) and determine maintenance action to be performed.	—	—
10. Identify repair parts and requisition, if required.	—	—
11. Assemble the M728 hydraulic system.	—	—
12. Assign personnel to perform necessary repairs.	—	—
13. Ensure all safety precautions and procedures are followed.	—	—
14. Provide assistance when necessary.	—	—
15. Ensure the M728 hydraulic system is repaired to acceptable standards.	—	—
16. Conduct an in-process inspection.	—	—
17. Perform a final inspection to ensure the M728 hydraulic system is fully mission-capable.	—	—
18. Critique personnel on their job performance.	—	—
19. Ensure maintenance forms are completed, as required.	—	—
20. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
LO 9-2350-222-12

Related
DA PAM 738-750

References

Required

SC 4933-95-A12
SC 5180-95-A12
TM 9-2350-222-10-2
TM 9-2350-222-10-3
TM 9-2350-222-20-2-2
TM 9-2350-222-20-2-3-1
TM 9-2350-222-20-2-3-2
TM 9-2350-222-20P-2
TM 9-2350-222-24P
TM 9-2350-222-34-2-2
TM 9-2350-222-34-2-3
TM 9-2350-222-34P-2

Related

TM 9-243

**Perform Diagnostic Procedures on M119 Series Light Towed Howitzer
091-45K-3069**

Conditions: In a field or garrison environment, given an M119 series light towed howitzer, additional/special tools, repair parts, test equipment, measuring devices, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on an M119 series light towed howitzer IAW applicable technical publications. When the task is completed, the M119 series light towed howitzer must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the M119 series light towed howitzer.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance if necessary.	—	—
12. Ensure the M119 series light towed howitzer is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the M119 series light towed howitzer is fully mission capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 4933-95-A12
 SC 5180-95-A12
 TM 9-1240-272-34&P

Related

DA PAM 738-750
 TM 9-243

**Perform Diagnostic Procedures on M2/3 BFV 25 MM Gun and Tow Launcher
091-45K-3070**

Conditions: In a field or garrison environment, given an M2/3 BFV 25 mm gun and TOW launcher, artillery and turret mechanic's tool kit, multimeter, repair parts, additional tools, TMDE, equipment specified in TMs, applicable maintenance forms and technical publications and supervision/assistance.

Standards: Correct malfunctions on M2/3 BFV mm gun and TOW launcher IAW applicable technical publications. When the task is completed, the M2/3 BFV 25 mm gun and TOW launcher must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools, TMDE, an equipment to correct malfunctions on the M2/3 25 MM gun and TOW launcher.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform initial inspection.	—	—
5. Troubleshoot the M2/3 BFV 25 MM gun TOW launcher.	—	—
6. Disassemble M2/3 gun and TOW launcher.	—	—
7. Replace M2/3 BFV 25MM gun and TOW launcher components, as required.	—	—
8. Assemble M2/3 BFV 25 MM gun and TOW launcher.	—	—
9. Perform required PMCS.	—	—
10. Perform a final operational test to verify fault(s) have been corrected.	—	—
11. Annotate corrective actions taken on DA Form 5988-E.	—	—
12. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- SC 5180-95-B19
- TM 9-1005-200-20&P
- TM 9-2350-252-10-2
- TM 9-2350-284-10-2
- TM 9-2350-284-20-1-2
- TM 9-2350-284-20-1-3
- TM 9-2350-284-20-2-2
- TM 9-2350-284-20-2-3
- TM 9-2350-284-24P-1

Related

- DA PAM 738-750
- TM 9-2350-284-34-2
- TM 9-2350-284-34-3-2
- TM 9-243

**Perform Diagnostic Procedures on M901/M981 Hydraulic
091-45K-3071**

Conditions: In a garrison or field environment, given M901/M981, artillery and turret mechanic's tool kit, multimeter, continuity test set, TSCD-BOB, armament shop set, additional tools, TMDE, equipment specified in TMs repair parts, meter/yard stick, targeting head support strut, special tools, fabricated tools, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M901/M981 hydraulic systems IAW applicable technical publications. When this task is completed, the M901/M981 hydraulic system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the hydraulic system.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose faults and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the M901/M981 hydraulic system is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the M901/ M981 hydraulic systems is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, are TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed (P). Score the soldier NO-GO if any step is failed (F). If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- TM 9-2350-266-10
- TM 9-2350-266-20

Related

- DA PAM 738-750
- TM 9-243

References

Required

TM 9-2350-266-24P

TM 9-2350-266-34-1

TM 9-2350-266-34-2

Related

**Perform Diagnostic Procedures on M120 Series Mortar System
091-45K-3075**

Conditions: In a field or garrison environment, given an M120 series mortar system, small arms tool kit, small arms shop set, additional tools, equipment specified in TMs, cleaning and lubricating materials, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M120 series mortar system IAW applicable technical publications. When the task is completed, the M120 series mortar system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the mortar system.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the mortar system is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the mortar system is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 5180-95-A07
- TM 9-1015-250-10
- TM 9-1015-250-23&P

Related

- DA PAM 738-750
- TM 9-243

**Perform Diagnostic Procedures on Semi-Automatic 9 MM Pistol
091-45K-3076**

Conditions: In a field or garrison environment, given a 9 mm pistol, small arms tool kit, trigger pull measuring fixture, additional tools, equipment specified in TMs, cleaning and lubricating materials, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on semi-automatic 9 mm pistol IAW applicable technical publications. When the task is completed, the semi-automatic 9 mm pistol must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the pistol.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the pistol is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the pistol is fully mission-capable.	—	—
15. Perform a preembarkation inspection, if necessary.	—	—
16. Perform annual gauging, if necessary.	—	—
17. Critique personnel on their job performance.	—	—
18. Ensure maintenance forms are completed, as required.	—	—
19. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

FM 23-35
SC 4933-95-A11
SC 5180-95-A07
TB 9-1000-247-34

Related

DA PAM 738-750
TM 9-243

References

Required

TM 9-1005-301-30

TM 9-1005-317-10

TM 9-1005-317-23&P

Related

**Perform Diagnostic Procedures on .50 CAL M2 Series Machine Gun
091-45K-3077**

Conditions: In a field or garrison environment, given an M2 series machine gun, small arms tool kit, special tools and equipment specified in TMs, repair parts, cleaning and lubricating materials, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M2 machine gun IAW applicable technical publications. When the task is completed, the M2 machine gun must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the machine gun.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the machine gun is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the machine gun is fully mission-capable.	—	—
15. Perform a preembarkation inspection, if necessary.	—	—
16. Perform annual gauging, if necessary.	—	—
17. Critique personnel on their job performance.	—	—
18. Ensure maintenance forms are completed, as required.	—	—
19. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
 FM 23-65
 SC 4933-95-A11
 SC 5180-95-A07
 TB 9-1000-247-34

Related
 DA PAM 738-750
 TM 9-243

References

Required

TM 9-1005-213-10
TM 9-1005-213-23
TM 9-1005-213-23P

Related

**Perform Diagnostic Procedures on 7.62 MM M240 Series Machine Gun
091-45K-3078**

Conditions: In a field or garrison environment, given an M240 series machine gun, small arms tool kit, special tools, additional tools, equipment specified in TMs, repair parts, cleaning and lubricating materials, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M240 machine gun IAW applicable technical publications. When the task is completed, the M240 machine gun must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the machine gun.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the machine gun is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the machine gun is fully mission-capable.	—	—
15. Perform a preembarkation inspection, if necessary.	—	—
16. Perform annual gauging, if necessary.	—	—
17. Critique personnel on their job performance.	—	—
18. Ensure maintenance forms are completed, as required.	—	—
19. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A11
- SC 5180-95-A07
- TM 9-1005-313-10
- TM 9-1005-313-23&P

Related

- DA PAM 738-750
- TM 9-243

**Perform Diagnostic Procedures on M242 Automatic Gun
091-45K-3079**

Conditions: In a field or garrison environment, given an M242 automatic gun, small arms tool kit, special tools, five rounds, multimeter, 24V DC power supply, fabricated rack, additional tools, equipment specified in TMs, repair parts, cleaning and lubricating materials, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M242 automatic gun IAW applicable technical publications. When the task is completed, the M242 automatic gun must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the M242 automatic gun.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the M242 automatic gun is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the automatic gun is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A11
- SC 5180-95-A07
- TM 9-1005-200-20&P
- TM 9-1005-301-30

Related

- DA PAM 738-750
- TM 9-243

**Perform Diagnostic Procedures on M198 Howitzer
091-45K-3080**

Conditions: In a field or garrison environment, given an M198 towed howitzer, artillery and turret mechanic's tool kit, M198 field artillery tool kit, special tools, boresight target, cleaning and lubricating materials, additional tools, equipment specified in TMs, repair parts, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on the M198 howitzer IAW applicable technical publications. When the task is completed, the M198 howitzer must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the howitzer.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the howitzer is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the howitzer is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

TM 750-116
TM 9-1240-375-34

Related

DA PAM 738-750
TM 9-243

**Perform Cannon Tube Evaluation
091-45K-3081**

Conditions: In a field or garrison environment, given an cannon or mortar tube, M12 bore erosion gauge with supplement, borescope kit, pullover gauge kit with accessories, vernier caliper, bore casting materials, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform cannon tube evaluation IAW applicable technical publications, and determine bore serviceability.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect and test the cannon tube.	—	—
5. Perform initial inspection.	—	—
6. Assign personnel to perform bore serviceability tests and inspections.	—	—
7. Ensure all safety precautions and procedures are followed.	—	—
8. Provide assistance when necessary.	—	—
9. Ensure soldiers evaluate bore serviceability using the borescope and measuring devices.	—	—
10. Ensure soldiers pour a cast of the bore.	—	—
11. Ensure soldiers evaluate bore cast for bore serviceability.	—	—
12. Conduct an in-process inspection.	—	—
13. Perform a final inspection to verify evaluation results.	—	—
14. Critique personnel on their job performance.	—	—
15. Ensure evaluation results are documented on DA Form 2408-4.	—	—
16. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- TM 9-1000-202-14
- TM 9-2350-264-24-2
- TM 9-2350-264-24P-2
- TM 9-2350-264-34-2-2
- TM 9-4933-258-13&P
- TM 9-6650-235-13&P

Related

- DA PAM 738-750
- TM 9-243

**Perform Diagnostic Procedures of M1 Series Abrams Tank Line Replaceable Unit
091-45K-3082**

Conditions: In a field or garrison environment, given an M1 series Abrams Tank, DSESTS, BOB, multimeter, STE-M1/FVS, artillery and turret mechanic's tool kit, special tools, armament shop set, power supply, ESD workstation, nitrogen, nitrogen purging and charging kit, laser goggles, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures of M1 series Abrams tank (LRU) IAW applicable technical publications. When the task is completed, the LRU must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the LRU.	—	—
5. Perform on-vehicle troubleshooting of LRUs with STE-M1/FVS.	—	—
6. Remove defective/faulty LRU(s) from vehicle.	—	—
7. Perform off-vehicle troubleshooting procedures with BOB and multimeter.	—	—
8. Diagnose fault(s) and determine maintenance action to be performed.	—	—
9. Identify repair parts and requisition, if required.	—	—
10. Assign personnel to perform necessary repairs.	—	—
11. Ensure all safety precautions and procedures are followed.	—	—
12. Provide assistance when necessary.	—	—
13. Ensure the LRU is repaired to acceptable standards.	—	—
14. Conduct an in-process inspection.	—	—
15. Perform a final test on DSESTS to ensure the LRU is fully mission-capable.	—	—
16. Reinstall LRU(s) on vehicle.	—	—
17. Critique personnel on their job performance.	—	—
18. Ensure maintenance forms are completed, as required.	—	—
19. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 4933-95-A12

SC 5180-95-A12

Related

DA PAM 738-750

TM 9-243

References

Required

TM 9-1200-206-34-3
TM 9-2350-264-10-2
TM 9-2350-264-24-2
TM 9-2350-264-24P-2
TM 9-2350-264-34-2-1
TM 9-2350-264-34-2-2
TM 9-4910-751-14&P
TM 9-4931-586-12-1&P
TM 9-4931-586-12-2&P
TM 9-4931-586-12-3&P
TM 9-4931-586-30&P

Related

**Perform Diagnostic Procedures on Gunner's Primary Sight
091-45K-3083**

Conditions: In a field or garrison environment, given (GPS) assembly, electronic system maintenance tool kit, DSESTS, BOB, power supply, multimeter, additional tools, TMDE, equipment specified in TMs, repair parts, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on GPS IAW applicable technical publications. When the task is completed, the GPS must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the GPS.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the GPS if repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the GPS is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4931-95-CL-A09
- SC 4931-95-J54
- SC 5180-95-B29
- TM 9-1200-206-34-1
- TM 9-1200-206-34-2
- TM 9-1200-206-34-3
- TM 9-1200-206-34P

Related

- DA PAM 738-750
- TM 9-243

References

Required

TM 9-4931-586-12-1&P

TM 9-4931-586-12-2&P

TM 9-4931-586-12-3&P

TM 9-4931-586-30&P

Related

**Perform Diagnostic Procedures of Laser Designator (G/VLLD and LTD)
091-45K-3084**

Conditions: In a field or garrison environment, given G/VLLD AN/TVQ-2, traversing unit, tripod, vehicle cable, power cable EMI filter, ground support equipment, oscilloscope TK7366, digital multimeter, nitrogen, nitrogen purging and charging kit, ESD workstation, electronic system maintenance tool kit, laser goggles, additional tools, TMDE, equipment specified in TMs, repair parts, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures of laser designator IAW applicable technical publications. When the task is completed, the laser designator must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, purge and charge, and test the laser designator.	—	—
5. Perform an initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the laser designator is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Ensure personnel perform nitrogen purging and charging, as required.	—	—
15. Perform a final inspection to ensure the laser designator is fully mission-capable.	—	—
16. Critique personnel on their job performance.	—	—
17. Ensure maintenance forms are completed, as required.	—	—
18. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4931-95-CL-A09
- SC 4931-95-J54
- SC 5180-92-A96
- SC 5180-95-B29

Related

- DA PAM 738-750
- TM 9-243

References

Required

TM 9-1260-477-12

TM 9-1260-477-24P

TM 9-1260-477-34-2

Related

**Perform Diagnostic Procedures on M117 Series Panoramic Telescope
091-45K-3085**

Conditions: In a field or garrison environment, given an M109 series howitzer, artillery and turret mechanic's tool kit, artillery shop set, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M117 series panoramic telescope IAW applicable technical publications. When the task is completed, the M117 series panoramic telescope must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, and replace the telescope.	—	—
5. Remove the telescope.	—	—
6. Inspect telescope for serviceability.	—	—
a. If serviceable, reinstall or assign personnel to reinstall.		
b. If unserviceable:		
(1) Requisition a replacement telescope.		
(2) Reinstall or assign personnel to replace/reinstall the telescope.		
7. Ensure all safety precautions and procedures are followed.	—	—
8. Provide assistance when necessary.	—	—
9. Perform a final inspection to ensure the telescope is properly reinstalled and is fully mission-capable.	—	—
10. Critique personnel on their job performance.	—	—
11. Ensure maintenance forms are completed, as required.	—	—
12. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 4931-95-CL-A09
 SC 4931-95-J54
 SC 5180-95-B29

Related

DA PAM 738-750
 TM 9-243

**Perform Diagnostic Procedures on M2 Series Aiming Circle
091-45K-3086**

Conditions: In a field or garrison environment, given M2 series aiming circle, ancillary equipment, lens tissue and optical lens cleaning compound, lubricant (GIA), surface gauge, collimating telescope, azimuth test fixture, plumb line, M1 series gunner's quadrant, telescope with adapter fixture, tripod, electronic system maintenance tool kit, bar parallel, tubular wrench set, holder collimator, bench level, dioptometer, inch-ounce torque wrench with fabricated adapter, fabricated azimuth test fixture adapter, fabricated pinned tubular wrench, nitrogen, nitrogen purging and charging kit, additional tools, TMDE, equipment specified in TMs, repair parts, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M2 series aiming circle IAW applicable technical publications. When the task is completed, the M2 series aiming circle must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools are available to inspect, repair/replace, purge and charge, and test the aiming circle.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure aiming circle is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Ensure personnel perform purging and charging, as required.	—	—
15. Perform a final inspection to ensure the aiming circle is fully mission-capable.	—	—
16. Critique personnel on their job performance.	—	—
17. Ensure maintenance forms are completed, as required.	—	—
18. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 4933-95-A11

TM 9-1290-262-24&P

Related

DA PAM 738-750

TM 9-243

**Perform Diagnostic Procedures on Upper Tank Periscope on M901/M981
091-45K-3087**

Conditions: In a field or garrison environment, given an M901 ITV/M981 FISTV, electronic system maintenance tool kit, socket wrench (3/8 inch drive), 1,000 pound capacity chain hoist, special socket head screw wrench, ITA alignment tool, upper ITA alignment tool, 0.157 inch feeler gauge, aperture assembly, safety helmet, nitrogen purging and charging kit, additional tools, TMDE, equipment specified in TMs, repair parts, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on upper tank periscope on an M901 ITV/M981 FISTV IAW applicable technical publications. When the task is completed, the upper tank periscope must be fully mission- capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools are available to inspect, repair/replace, purge and charge, and test the upper tank periscope.	—	—
5. Perform an initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Remove the upper tank periscope from the vehicle.	—	—
13. Ensure the upper tank periscope is repaired to acceptable standards.	—	—
14. Conduct an in-process inspection.	—	—
15. Ensure personnel perform purging and charging, as required.	—	—
16. Reinstall the upper tank periscope in the vehicle.	—	—
17. Align the upper tank periscope.	—	—
18. Perform a final inspection to ensure the upper tank periscope is fully mission-capable.	—	—
19. Critique personnel on their job performance.	—	—
20. Ensure maintenance forms are completed, as required.	—	—
21. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 4931-95-J54
SC 4933-95-A11
SC 5180-95-B29
TM 750-116
TM 9-2350-259-10
TM 9-2350-259-20
TM 9-2350-259-24P
TM 9-2350-259-34
TM 9-2350-266-10
TM 9-2350-266-20
TM 9-2350-266-24P
TM 9-2350-266-34-2

Related

DA PAM 738-750
TM 9-243

**Perform Diagnostic Procedures on Fire Control Quadrants
091-45K-3088**

Conditions: In a field or garrison environment, given a howitzer, artillery and turret mechanic's tool kit, applicable tool kit, special tools, additional tools, TMDE, equipment specified in TMs, repair parts, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on fire control quadrant IAW applicable technical publications. When the task is completed, the fire control quadrant must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the fire control quadrant.	—	—
5. Remove the fire control quadrant.	—	—
6. Perform initial inspection.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts, and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the fire control quadrant is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the fire control quadrant is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4931-95-CL-A09
- SC 5180-95-A12
- SC 5180-95-B29
- TM 9-1240-375-34

Related

- DA PAM 738-750
- TM 9-243

**Perform Diagnostic Procedures on M1 Series Gunner's Quadrants
091-45K-3089**

Conditions: In a field or garrison environment, given M1 series gunner's quadrant, cleaning and preserving materials, surface plate, bench level, electronic system maintenance tool kit, cross leveling fixture, inspection and support assembly, key socket head screw 0.035 inch wrench, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M1 series gunner's quadrant IAW applicable technical publications and determine serviceability of the quadrant.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the gunner's quadrant.	—	—
5. Perform initial inspection.	—	—
6. Perform end-for-end test.	—	—
7. Perform micrometer test.	—	—
8. Determine serviceability of gunner's quadrant.	—	—
a. If serviceable, tag and document as necessary.		
b. If unserviceable, turn in and requisition replacement.		
9. Ensure maintenance forms are completed, as required.	—	—
10. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 4931-95-CL-A09
 SC 5180-95-B29
 TM 9-1290-200-14&P

Related

DA PAM 738-750
 TM 9-243

**Perform Diagnostic Procedures on Telescope and Mount
091-45K-3090**

Conditions: In a field or garrison environment, given an M198 towed or M109 self-propelled howitzer, BII, artillery and turret mechanic's tool kit, special tools, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on telescope and mount IAW applicable technical publications. When the task is completed, the telescope and mount must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, remove, install, test, and align the telescope and mount.	—	—
5. Remove the telescope and/or telescope mount.	—	—
6. Assign personnel to perform necessary inspections and testing.	—	—
7. Ensure all safety precautions and procedures are followed.	—	—
8. Provide assistance when necessary.	—	—
9. Ensure telescope and mount are inspected, tested, and reinstalled to acceptable standards.	—	—
a. Inspect the telescope mount.		
b. Reinstall the telescope mount.		
c. Align the telescope mount.		
d. Inspect the telescope.		
e. Check eyepiece focus of the telescope.		
f. Reinstall the telescope.		
10. Conduct an in-process inspection.	—	—
11. Perform a final inspection to ensure the telescope and/or mount are fully mission-capable.	—	—
12. Critique personnel on their job performance of the task.	—	—
13. Ensure maintenance forms are completed, if required.	—	—
14. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 5180-95-A07
 SC 5180-95-A12
 SC 5180-95-B29
 TM 9-1025-211-10

Related

DA PAM 738-750
 TM 9-243

References

Required

TM 9-1025-211-20
TM 9-1025-211-34
TM 9-1025-211-34P
TM 9-2330-203-14&P
TM 9-2350-314-10
TM 9-2350-314-20-2-1
TM 9-2350-314-20-2-2
TM 9-2350-314-24P-2
TM 9-2350-314-34-2

Related

**Verify Fire Control Alignment Procedures on Towed and Self-Propelled Howitzer
091-45K-3091**

Conditions: In a field or garrison environment, given an M198 towed or M109 series self-propelled howitzer, artillery and turret mechanic's tool kit, special tools, boresight target, BII, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Verify fire control alignment procedures on towed and self-propelled howitzers IAW applicable technical publications. When the task is completed, the howitzer must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, test, and perform fire control alignment.	—	—
5. Assign personnel to perform necessary fire control alignment procedures.	—	—
a. Ensure all fire control components are properly installed.		
b. Inspect M138 elbow telescope eyepiece focus on M198 towed howitzer.		
c. Perform fire control alignment procedures.		
6. Ensure all safety precautions and procedures are followed.	—	—
7. Provide assistance when necessary.	—	—
8. Ensure fire control alignment procedures are performed to acceptable standards.	—	—
9. Conduct an in-process inspection.	—	—
10. Perform a final inspection to ensure the fire control alignment procedures have been properly performed.	—	—
11. Critique personnel on their job performance.	—	—
12. Ensure maintenance forms are completed, as required.	—	—
13. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4931-95-CL-A09
- SC 5180-95-A12
- TM 9-1025-211-10
- TM 9-1025-211-20
- TM 9-1025-211-34
- TM 9-1025-211-34P
- TM 9-1240-375-34
- TM 9-2350-314-20-2-1
- TM 9-2350-314-20-2-2
- TM 9-2350-314-24P-2
- TM 9-2350-314-34-2

Related

- DA PAM 738-750
- TM 9-243

**Perform Diagnostic Procedures on M1 Series Aiming Reference Collimator
091-45K-3092**

Conditions: In a field or garrison environment, given M1 series aiming reference collimator, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M1 series aiming reference collimator IAW applicable technical publications. When the task is completed, the M1 series aiming reference collimator must be fully mission- capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to inspect, repair/replace, and test the aiming reference collimator.	—	—
5. Perform initial inspection.	—	—
6. Diagnose fault(s) and determine maintenance action to be performed.	—	—
7. Identify repair parts and requisition, if required.	—	—
8. Assign personnel to perform necessary repairs.	—	—
9. Ensure all safety precautions and procedures are followed.	—	—
10. Provide assistance when necessary.	—	—
11. Ensure the aiming reference collimator is repaired to acceptable standards.	—	—
12. Conduct an in-process inspection.	—	—
13. Conduct a final inspection to ensure the aiming reference collimator is fully mission-capable.	—	—
14. Critique personnel on their job performance.	—	—
15. Ensure maintenance forms are completed, as required.	—	—
16. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 4931-95-CL-A09
SC 5180-95-B29

Related

DA PAM 738-750
TM 9-2350-264-10-2
TM 9-2350-264-20-2-4
TM 9-2350-264-24-2
TM 9-2350-264-24P-2
TM 9-2350-264-34-2-2
TM 9-243

**Perform Diagnostic Procedures on M1 Series Abrams Tank Turret Hydraulic System
091-45K-3093**

Conditions: In a field or garrison environment, given M1 series Abrams tank, BOB, multimeter, STE-M1/FVS, artillery and turret mechanic's tool kit, special tools, M1 support tool kit, armament shop set, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M1 series Abrams tank turret hydraulic system IAW applicable technical publications. When the task is completed, the M1 series Abrams tank turret hydraulic system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the hydraulic system.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the hydraulic system is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the hydraulic system is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- TM 9-2350-264-20-2-1
- TM 9-2350-264-20-2-2
- TM 9-2350-264-20-2-3

Related

- DA PAM 738-750
- TM 9-243

References

Required

TM 9-2350-264-24P-2
TM 9-2350-264-34-2-1
TM 9-2350-264-34-2-2
TM 9-4910-751-14&P

Related

**Perform Diagnostic Procedures on M1 Series Abrams Tank Turret Electrical System
091-45K-3094**

Conditions: In a field or garrison environment, given M1 series Abrams tank, BOB, multimeter, STE-M1/FVS, artillery and turret mechanic's tool kit, special tools, M1 support tool kit, armament shop set, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M1 series Abrams tank turret electrical system IAW applicable technical publications. When the task is completed, the M1 series Abrams tank turret electrical system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the electrical system.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the electrical system is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the electrical system is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- TM 9-2350-264-10-2
- TM 9-2350-264-20-2-1
- TM 9-2350-264-20-2-2

Related

- DA PAM 738-750
- TM 9-243
- TM 9-4931-586-12-1&P

References

Required

TM 9-2350-264-20-2-3
TM 9-2350-264-24-2
TM 9-2350-264-24P-2
TM 9-2350-264-34-2-1
TM 9-2350-264-34-2-2
TM 9-4910-751-14&P
TM 9-4931-586-12-2&P

Related

**Perform Diagnostic Procedures on M1 Series Abrams Tank Turret Assembly
091-45K-3095**

Conditions: In a field or garrison environment, given M1 series Abrams tank, BOB, multimeter, STE-M1/FVS, artillery and turret mechanic's tool kit, special tools, M1 support tool kit, armament shop set, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M1 series Abrams tank turret assembly IAW applicable technical publications. When the task is completed, the M1 series Abrams tank turret assembly must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair, and test the turret assembly.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the turret assembly is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the turret assembly is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- TM 9-2350-264-10-2
- TM 9-2350-264-20-1-2
- TM 9-2350-264-20-1-3

Related

- DA PAM 738-750
- TM 9-243

References

Required

TM 9-2350-264-20-2-2
TM 9-2350-264-20-2-3
TM 9-2350-264-24-2
TM 9-2350-264-24P-2
TM 9-2350-264-34-1-2
TM 9-2350-264-34-2-2
TM 9-4910-751-14&P

Related

**Perform Diagnostic Procedures on M1 Series Abrams Tank Armament System
091-45K-3096**

Conditions: In a field or garrison environment, given an M1 series Abrams tank, artillery and turret mechanic's tool kit, armament shop set, BOB, multimeter, STE-M1/FVS, special tools, M1 support tool kit, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M1 series Abrams tank armament system IAW applicable technical publications. When the task is completed, the M1 series Abrams tank armament system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the armament system.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Inspect armament system components.	—	—
9. Identify repair parts and requisition, if required.	—	—
10. Assign personnel to perform necessary repairs.	—	—
11. Ensure all safety precautions and procedures are followed.	—	—
12. Provide assistance when necessary.	—	—
13. Ensure the armament system is repaired to acceptable standards.	—	—
14. Conduct an in-process inspection.	—	—
15. Perform a final inspection to ensure the armament system is fully mission-capable.	—	—
16. Critique personnel on their job performance.	—	—
17. Ensure maintenance forms are completed, as required.	—	—
18. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 4933-95-A12
SC 5180-95-A12

Related

DA PAM 738-750
TM 9-243

References

Required

TM 9-2320-364-20-2
TM 9-2320-364-20-3
TM 9-2320-364-24P-2
TM 9-2350-264-10-2
TM 9-2350-264-20-1-2
TM 9-2350-264-20-2-2
TM 9-2350-264-20-2-3
TM 9-2350-264-24-2
TM 9-2350-264-24P-2
TM 9-2350-264-34-1-2
TM 9-2350-264-34-2-2
TM 9-4910-751-14&P

Related

**Perform Diagnostic Procedures on M2/3 BFV Turret Assembly
091-45K-3097**

Conditions: In a field or garrison environment, given an M2/3 series BFV, artillery and turret mechanic's tool kit, armament shop set, BOB, digital multimeter, STE-M1/FVS, special tools, supplemental tool/kit set, fabricated tools, 500 amp power supply, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M2/3 BFV turret assembly IAW applicable technical publications. When the task is completed, the M2/3 BFV turret assembly must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the turret assembly.	—	—
5. Perform an initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the turret assembly is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the turret assembly is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- TM 9-2350-284-10-2
- TM 9-2350-284-20-1-2
- TM 9-2350-284-20-2-1
- TM 9-2350-284-20-2-2
- TM 9-2350-284-20-2-3
- TM 9-2350-284-24P-1

Related

- DA PAM 738-750
- TM 9-243

References

Required

TM 9-2350-284-34-2
TM 9-2350-284-34-3-2
TM 9-4910-751-14&P

Related

**Perform Diagnostic Procedures on M2/3 BFV Turret Electrical System
091-45K-3098**

Conditions: In a field or garrison environment, given an M2/3 series BFV, artillery and turret mechanic's tool kit, armament shop set, BOB, digital multimeter, STE-M1/FVS, special tools, supplemental tool/kit set, fabricated tools, 500- amp power supply, additional tools, TMDE, equipment specified in TMs, and maintenance forms and applicable technical publications.

Standards: Perform diagnostic procedures on M2/3 BFV turret electrical system IAW applicable technical publications. When the task is completed, the M2/3 BFV turret electrical system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair, and test the electrical system.	—	—
5. Perform an initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the electrical system is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the electrical system is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- TM 9-2350-284-10-2
- TM 9-2350-284-20-1-3
- TM 9-2350-284-20-2-1
- TM 9-2350-284-20-2-2
- TM 9-2350-284-20-2-3

Related

- DA PAM 738-750
- TM 9-243

References

Required

TM 9-2350-284-24P-1
TM 9-2350-284-34-2
TM 9-2350-284-34-3-2
TM 9-4910-751-14&P
TM 9-4931-586-12-1&P
TM 9-4931-586-12-3&P
TM 9-4931-586-30&P

Related

**Perform Diagnostic Procedures on M2/3 BFV Turret Drive Assembly
091-45K-3099**

Conditions: In a field or garrison environment, given an M2/3 series BFV, artillery and turret mechanic's tool kit, armament shop set, BOB, digital multimeter, STE-M1/FVS, special tools, supplemental tool/kit set, fabricated tools, 500 amp power supply, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M2/3 BFV turret drive assembly IAW applicable technical publications. When the task is completed, the M2/3 BFV turret drive assembly must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair, and test the turret drive assembly.	—	—
5. Perform an initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if needed.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the turret drive assembly is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the turret drive assembly is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- TM 9-2350-284-10-2
- TM 9-2350-284-20-2-1
- TM 9-2350-284-20-2-2
- TM 9-2350-284-20-2-3

Related

- DA PAM 738-750
- TM 9-243

References

Required

TM 9-2350-284-24P-1
TM 9-2350-284-34-2
TM 9-2350-284-34-3-2

Related

**Perform Diagnostic Procedures on M109 Series Howitzer Traversing Systems
091-45K-3100**

Conditions: In a field or garrison environment, given M109 series howitzer, artillery and turret mechanic's tool kit, artillery shop set, multimeter, additional tools, TMDE, equipment specified in TMs, and maintenance forms and applicable technical publications.

Standards: Perform diagnostic procedures on M109 series howitzer traversing systems IAW applicable technical publications. When the task is completed, the M109 series howitzer traversing systems must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the traversing system.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the traversing system is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the traversing system is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- TM 9-2350-314-10
- TM 9-2350-314-20-2-1
- TM 9-2350-314-20-2-2
- TM 9-2350-314-24P-2
- TM 9-2350-314-34-2

Related

- DA PAM 738-750
- TM 9-243

**Perform Diagnostic Procedures on M109 Series Howitzer Cab Hydraulic System
091-45K-3101**

Conditions: In a field or garrison environment, given an M109 series howitzer, artillery and turret mechanic's tool kit, artillery shop set, multimeter, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M109 series howitzer cab hydraulic system IAW applicable technical publications. When the task is completed, the M109 series howitzer cab hydraulic system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the cab hydraulic system.	—	—
5. Perform initial inspection.	—	—
6. Initialize AFCS (M109A6 only).	—	—
7. Operate PDIU (M109A6 only).	—	—
8. Perform troubleshooting procedures.	—	—
9. Diagnose fault(s) and determine maintenance action to be performed.	—	—
10. Identify repair parts and requisition, if needed.	—	—
11. Assign personnel to perform necessary repairs.	—	—
12. Ensure all safety precautions and procedures are followed.	—	—
13. Provide assistance when necessary.	—	—
14. Ensure the cab hydraulic system is repaired to acceptable standards.	—	—
15. Conduct an in-process inspection.	—	—
16. Perform a final inspection to ensure the cab hydraulic system is fully mission-capable.	—	—
17. Critique personnel on their job performance.	—	—
18. Ensure maintenance forms are completed, as required.	—	—
19. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 4933-95-A12
SC 5180-95-A12

Related

DA PAM 738-750
TM 9-243

References

Required

TM 9-2350-314-10
TM 9-2350-314-20-2-1
TM 9-2350-314-20-2-2
TM 9-2350-314-24P-2
TM 9-2350-314-34-2

Related

**Perform Diagnostic Procedures on M109 Series Howitzer Cannon and Mount
091-45K-3102**

Conditions: In a field or garrison environment, given an M109 series howitzer, artillery and turret mechanic's tool kit, artillery shop set, multimeter, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M109 series howitzer cannon and mount IAW applicable technical publications. When the task is completed, the M109 series howitzer cannon and mount must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the howitzer cannon and mount.	—	—
5. Perform an initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Ensure the howitzer cannon and mount are repaired to acceptable standards.	—	—
12. Conduct an in-process inspection.	—	—
13. Perform a final inspection to ensure the howitzer cannon and mount are fully mission-capable.	—	—
14. Critique personnel on their job performance.	—	—
15. Ensure maintenance forms are completed, as required.	—	—
16. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- TM 9-2350-311-10
- TM 9-2350-311-20-2
- TM 9-2350-311-24P-2
- TM 9-2350-311-34-2
- TM 9-2350-314-10

Related

- DA PAM 738-750
- TM 9-243

References

Required

TM 9-2350-314-20-2-1
TM 9-2350-314-20-2-2
TM 9-2350-314-24P-2
TM 9-2350-314-34-2

Related

**Perform Diagnostic Procedures on M109A6 Howitzer Microclimate Conditioning System (MCS)
091-45K-3104**

Conditions: In a field or garrison environment, given M109A6 howitzer, special tools, artillery and turret mechanic's tool kit, artillery shop set, multimeter, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M109A6 howitzer (MCS) IAW applicable technical publications. When the task is completed, the M109A6 howitzer (MCS) must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the MCS.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the MCS is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the MCS is fully mission-capable.	—	—
15. Critique personnel on their job.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- TM 9-2350-314-10
- TM 9-2350-314-20-2-1
- TM 9-2350-314-20-2-2
- TM 9-2350-314-24P-2
- TM 9-2350-314-34-2

Related

- DA PAM 738-750
- TM 9-243

**Perform Diagnostic Procedures on M901/M981 Turret Assembly
091-45K-3105**

Conditions: In a field or garrison environment, given an M901 ITV/M981 FISTV, electronic system maintenance tool kit, artillery and turret mechanic's tool kit, digital multimeter, continuity test set, TSCD-BOB, targeting head support strut, armament shop set, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M901 ITV/M981 FISTV IAW applicable technical publications. When the task is completed, the ITV/FISTV must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair, and test the M901 ITV/M981 FISTV.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the M901 ITV/M981 FISTV is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the M901 ITV/M981 FISTV is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- TM 9-2350-259-10
- TM 9-2350-259-24P
- TM 9-2350-259-34

Related

- DA PAM 738-750
- TM 9-243

References

Required

TM 9-2350-266-10
TM 9-2350-266-24P
TM 9-2350-266-34-2

Related

**Perform Diagnostic Procedures on M109 Series Howitzer Cab Electrical System
091-45K-3106**

Conditions: In a field or garrison environment, given an M109 series howitzer, artillery and turret mechanic's tool kit, artillery shop set, multimeter, additional tool, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M109 series howitzer cab electrical system IAW applicable technical publications. When the task is completed, the M109 series howitzer cab electrical system must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are TMDE are available to inspect, repair/replace, and test the electrical systems.	—	—
5. Perform initial inspection.	—	—
6. Initialize AFCS (M109A6 only).	—	—
7. Operate PDIU (M109A6 only).	—	—
8. Perform troubleshooting procedures.	—	—
9. Diagnose fault(s) and determine maintenance action to be performed.	—	—
10. Identify repair parts and requisition, if required.	—	—
11. Assign personnel to perform necessary repairs	—	—
12. Ensure all safety precaution and procedures are followed.	—	—
13. Provide assistance when necessary.	—	—
14. Ensure the electrical system is replace to acceptable standards	—	—
15. Conduct an in-process inspection.	—	—
16. Performed a final inspection to ensure the electrical systems is fully mission-capable.	—	—
17. Critique personnel on their job performance.	—	—
18. Ensure maintenance forms are complete, as required.	—	—
19. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 4933-95-A12

SC 5180-95-A12

Related

DA PAM 738-750

TM 9-243

References

Required

TM 9-2350-311-10
TM 9-2350-311-20-2
TM 9-2350-311-24P-2
TM 9-2350-311-34-2
TM 9-2350-314-10
TM 9-2350-314-20-2-1
TM 9-2350-314-20-2-2
TM 9-2350-314-24P-2
TM 9-2350-314-34-2

Related

**Perform On-System Verification of M981 FISTV
091-45K-3107**

Conditions: In a field or garrison environment, given an M981 FISTV, artillery and turret mechanic's tool kit, targeting head support strut, special tools, fabricated tools, additional tools, TMDE, equipment specified in TM's, and applicable maintenance forms and technical publications.

Standards: Perform on-systems verification of M981 FISTV IAW applicable technical publications. When the task is completed, the FISTV must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools and equipment are available to perform on-system verification of the M981 FISTV.	—	—
5. Ensure all safety precautions and procedures are followed..	—	—
6. Perform on-system verification procedures.	—	—
7. Ensure maintenance forms are completed, as required..	—	—
8. Ensure tools and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A12
- SC 5180-95-A12
- TM 9-2350-266-10
- TM 9-2350-266-20
- TM 9-2350-266-24P
- TM 9-2350-266-34-2

Related

- DA PAM 738-750
- TM 9-243

**Use Test Measurement, and Diagnostic Equipment (TMDE)
091-45K-3108**

Conditions: In a field or garrison environment, given multimeter, STE-M1/FVS,DSESTS, SPORT, BOB, Ccontact test set versions 3 (CTS v.3), various electrical components, wiring diagram, DC power supply, and applicable maintenance forms and technical publications.

Standards: Set up, perform self-test procedures, and operate the (TMDE) IAW applicable technical publications.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure tools, equipment, and TMDE are available.	—	—
5. Set up, and operate the multimeter.	—	—
6. Set up, test, and operate the STE-M1/FVS.Perform.	—	—
7. Set up, test, and operate the DSESTS.	—	—
8. Set up, test, and operate the SPORT.	—	—
9. Set up, test, and operate the BOB.	—	—
10. Set up, test, and operate the CTS v.3.	—	—
11. Ensure equipment and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- TB 750-25
- TM 11-6625-3052-14
- TM 11-6625-3052-24P
- TM 9-4910-751-14&P
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-2&P
- TM 9-4931-586-12-3&P
- TM 9-4931-586-30&P

Related

- DA PAM 738-750
- TM 9-243

**Perform Diagnostic Procedures of AN/PVS-6 MELIOS
091-45K-3109**

Conditions: In a field or garrison environment, given MELIOS AN/PVS-6, digital multimeter, Sensor Card IR 276-0099, electronic system maintenance tool kit, PS 2997 A/U 6625-01-227-9615 battery discharger/analyzer, battery charger, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures of AN/PVS-6 MELIOS IAW applicable technical publications. When the task is completed, the AN/PVS-6 MELIOS must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Select and use applicable technical publications.	—	—
3. Select and use applicable tools, TMDE, and equipment to correct malfunctions of the AN/PVS-6 MELIOS.	—	—
4. Practice shop safety and maintenance discipline.	—	—
5. Perform initial inspection.	—	—
6. Troubleshooting on the AN/PVS-6 MELIOS.	—	—
7. Repaire/replace the AN/PVS-6 MELIOS components, as required.	—	—
8. Perform a final operational test to verify fault(s) have been corrected.	—	—
9. Annotate corrective actions taken on DA Form 5988-E.	—	—
10. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 5180-95-B29
TM 11-5860-202-10
TM 750-116

Related

DA PAM 738-750
TM 9-243

Perform Diagnostic Procedures of M1 Series Abrams Tank Fire Control System Laser Range Finder

091-45K-3110

Conditions: In a field or garrison environment, given an M1 series Abrams tank, laser range finder, DSESTS, BOB, STE-M1/FVS, M1 support tool kit, multimeter, power supply, ESD workststion, artillery and turret mechanic's tool kit, armament shop set, nitrogen, nitrogen purging and charging kit, special tools, additional tools, TMDE, equipment specified in TMs, laser goggles, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M1 series Abrams tank fire control system laser range finder IAW applicable technical publications. When the task is completed, the N1 series Abrams tank fire control system laser range finder must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the ISU.	—	—
5. Perform on-vecicle troubleshooting procedures.	—	—
6. Remove laser ranger finder from vechicle.	—	—
7. Perform off-vehicle troubleshooting procedures with BOB and multimeter.	—	—
8. Diagnose fault(s) and determine maintenance action to be performed.	—	—
9. Identify repair parts and requisitions, if required.	—	—
10. Assign personnel to perform necessary repairs.	—	—
11. Ensure all safety precautions and procedures are followed.	—	—
12. Provide assistance when necessary.	—	—
13. Ensure the laser range finder is repaired to acceptable standards	—	—
14. Conduct an in-process inspection.	—	—
15. Test the laser range finder on DSESTS to ensure it is fully mission-capable.	—	—
16. Reinstall the laser range finder on the vehicle.	—	—
17. Critique personnel on their job performance.	—	—
18. Ensure maintenance forms are completed, as requiired.	—	—
19. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 4931-95-J54
SC 5180-95-B29
TM 750-116
TM 9-1240-371-34
TM 9-2350-264-10-2
TM 9-2350-264-20-2-1
TM 9-2350-264-20-2-2
TM 9-2350-264-20-2-3
TM 9-2350-264-24-2
TM 9-2350-264-24P-2
TM 9-2350-264-34-2-1
TM 9-2350-264-34-2-2
TM 9-4931-586-12-1&P
TM 9-4931-586-12-2&P
TM 9-4931-586-30&P

Related

DA PAM 738-750
TM 9-243

**Perform Diagnostic Procedures on Bradley ISU
091-45K-3111**

Conditions: In a field or garrison environment, given a Bradley (ISU) integrated sight unit, DSESTS with stand, power supply, electronic system maintenance tool kit, (ESD) workstation, multimeter, additional tools, TMDE, repair parts, equipment specified in TMs, and applicable maintenance forms and technical publications and supervision/assistance.

Standards: Correct malfunctions of the Bradley ISU IAW applicable technical publications. When the task is completed, the Bradley ISU must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools, TMDE, and equipment to correct malfunction of the Bradley ISU.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform initial inspection.	—	—
5. Troubleshoot the ISU.	—	—
a. BSA		
b. Visual module.		
c. Unity cover transceiver.		
6. Repair/replace the ISU components, as required.	—	—
7. Perform a final operational test to verify fault(s) have been corrected.	—	—
8. Annotate corrective actions taken on the DA Form 5988-E.	—	—
9. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4931-95-J54
- SC 5180-95-B29
- TM 9-2350-284-10-2
- TM 9-2350-284-20-2-1
- TM 9-2350-284-20-2-2
- TM 9-2350-284-20-2-3
- TM 9-2350-284-24P-1
- TM 9-2350-284-34-2
- TM 9-2350-284-34-3-1
- TM 9-2350-284-34-3-2
- TM 9-4931-586-12-1&P
- TM 9-4931-586-12-3&P
- TM 9-4931-586-12-4&P
- TM 9-4931-586-12-5&P
- TM 9-4931-586-30&P

Related

- DA PAM 738-750
- TM 9-243

**Perform Diagnostic Procedures on Bradley TOW Missile Launcher
091-45K-3112**

Conditions: In a field or garrison environment, given Bradley TOW missile launcher, DCGE, ISU, DSESTS with stand, power supply, electronic system maintenance tool kit, ESD workstation, multimeter, additional tools, TMDE, repair parts, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on Bradley TOW missile launcher IAW applicable technical publications. When the task is completed, the Bradley TOW missile launcher must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the TOW missile launcher.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the TOW missile launcher is repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final test to ensure the TOW missile launcher is fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, and TMDE and equipment are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4931-95-A22
- TM 9-2350-284-10-2
- TM 9-2350-284-20-2-1
- TM 9-2350-284-20-2-2
- TM 9-2350-284-20-2-3

Related

- DA PAM 738-750
- TM 9-243

References

Required

TM 9-2350-284-24P-1
TM 9-2350-284-34-2
TM 9-2350-284-34-3-1
TM 9-2350-284-34-3-2
TM 9-4931-586-12-1&P
TM 9-4931-586-12-3&P
TM 9-4931-586-12-4&P
TM 9-4931-586-12-5&P
TM 9-4931-586-30&P

Related

**Perform Diagnostic Procedures on M109 Series Howitzer Cab and Cab Bearing
091-45K-3113**

Conditions: In a field or garrison environment, given M109 series howitzer, artillery and turret mechanic's tool kit, artillery shop set, multimeter, additional tools, TMDE, equipment specified in TMs, and applicable maintenance forms and technical publications.

Standards: Perform diagnostic procedures on M109 series howitzer cab and cab bearing IAW applicable technical publications. When the task is completed, the M109 series howitzer cab must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publication are available.	—	—
4. Ensure proper tools, equipment, and TMDE are available to inspect, repair/replace, and test howitzer cab and cab bearing.	—	—
5. Perform initial inspection.	—	—
6. Perform troubleshooting procedures.	—	—
7. Diagnose fault(s) and determine maintenance action to be performed.	—	—
8. Identify repair parts and requisition, if required.	—	—
9. Assign personnel to perform necessary repairs.	—	—
10. Ensure all safety precautions and procedures are followed.	—	—
11. Provide assistance when necessary.	—	—
12. Ensure the howitzer cab and cab bearing are repaired to acceptable standards.	—	—
13. Conduct an in-process inspection.	—	—
14. Perform a final inspection to ensure the howitzer cab and cab bearing are fully mission-capable.	—	—
15. Critique personnel on their job performance.	—	—
16. Ensure maintenance forms are completed, as required.	—	—
17. Ensure tools, equipment, and TMDE are properly maintained.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

SC 4933-95-A12
SC 5180-95-A12

Related

DA PAM 738-750
TM 9-243

References

Required

TM 9-2350-311-10
TM 9-2350-311-20-2
TM 9-2350-311-24P-2
TM 9-2350-311-34-2
TM 9-2350-314-10
TM 9-2350-314-20-2-1
TM 9-2350-314-20-2-2
TM 9-2350-314-24P-2
TM 9-2350-314-34-2

Related

Skill Level 4

Subject Area 9: COMMON LOGISTICS MANAGEMENT TASKS

**Perform Senior Rater Responsibilities for a Maintenance Section
091-CLT-4001**

Conditions: In a field or garrison environment, given an NCOER with the rater's portion completed, accompanying counseling statements, and AR 623-205.

Standards: Performed senior rater's responsibilities IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured all materials and references were available.	—	—
2. Reviewed quarterly counseling that supported the NCOER.	—	—
3. Reviewed the administrative data and rater's portions of the NCOER for accuracy and content.	—	—
4. Prepared the senior rater's portion of the NCOER.	—	—
5. Ensured the NCOER was submitted for review and further processing.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
AR 623-205

Related

**Supervise Platoon/Section Administrative Procedures
091-CLT-4002**

Conditions: In a field or garrison environment, given situation(s) requiring platoon/section administrative procedures supervision and applicable forms, records, and publications.

Standards: Supervised platoon/section administrative procedures IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Established files using the Modern Army Record Keeping System (MARKS). a. Prepared file folders and guides. b. Arranged file folders and guides. c. Prepared file drawer labels. d. Prepared a list of file numbers.	—	—
2. Processed a recommendation for award.	—	—
3. Processed and updated a flag on records.	—	—
4. Verified the accuracy of Suspension of Favorable Action Report.	—	—
5. Processed and updated a bar to reenlistment.	—	—
6. Processed a chapter action. a. Selected appropriate type of chapter action and identified separation guidelines. b. Initiated and follow-up the chapter action.	—	—
7. Processed a recommendation for advancement/promotion.	—	—
8. Verified accuracy of Enlisted Promotion Report (AAC-C01).	—	—
9. Assisted a subordinate NCO who had received notice of selection to be released under the Qualitative Management Program (QMP).	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

- Required**
AR 25-400-2
AR 600-8-2
AR 614-200
AR 635-200

Related

Manage Combat Stress
091-CLT-4003

Conditions: In a field or garrison environment, given a situation requiring stress management and FM 22-51.

Standards: Managed combat stress IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Identified sources of combat stress.	—	—
2. Identified the signs and classifications of battle fatigue.	—	—
3. Identified signs of stress in self, others, and the unit.	—	—
4. Took appropriate steps to reduce and/or prevent stress.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References
Required
FM 22-51

Related

**Ensure Maintenance Operations are in Compliance With the Army Environmental Program
091-CLT-4004**

Conditions: In a field or garrison environment, given a maintenance facility/site, maintenance personnel and equipment, and applicable references.

Standards: Ensured maintenance operations were in compliance with the Army Environmental Program and other regulatory publications.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured all publications were available.	—	—
2. Reviewed maintenance SOP to ensure environmental policies and procedures were adequately addressed concerning the following: a. Environmental strategies of compliance, restoration, prevention, and conservation. b. Federal, state, local, and host nation laws and regulations.	—	—
3. Updated/changed/amended SOP as necessary.	—	—
4. Ensured all soldiers had received training on environmental laws, regulations, policies, and procedures.	—	—
5. Ensured inspections for hazardous waste and HAZMAT were conducted as required.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
 AR 385-10
 AR 40-5
 FM 4-30.3

Related

**Enforce Compliance With the Shop Safety Program
091-CLT-4005**

Conditions: In a field or garrison environment, given a maintenance site/facility, maintenance personnel, unit safety SOP, and applicable references.

Standards: Enforced compliance with the shop safety program IAW applicable references and unit safety SOP.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured all safety references were on hand.	—	—
2. Ensured all safety equipment was on hand, accessible, and properly maintained.	—	—
3. Ensured all soldiers were regularly updated on the shop safety program.	—	—
4. Ensured periodic safety inspections were being conducted, and safety concerns and violations were being corrected.	—	—
5. Ensured safety violations were being documented and reported as required, and follow-ups were being conducted.	—	—
6. Inspected records of safety inspections and accident reports for accuracy and completeness.	—	—
7. Inspected to ensure Material Safety Data Sheets (MSDS) were posted and maintained in applicable work areas.	—	—
8. Performed periodic safety spot checks and inspections for safety awareness and systemic safety problems.	—	—
a. Performed on-the-spot corrections.		
b. Performed follow-ups.		

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

- References**
- Required**
- AR 385-10
 - AR 385-40
 - AR 385-55
 - AR 614-200
 - DA PAM 385-1
 - TB 43-0142
 - TB MED 524

Related

**Coordinate Support for the Maintenance Platoon/Section
091-CLT-4006**

Conditions: In a field environment, given a OPORD/maintenance situation, a maintenance platoon or section with personnel and equipment, SOP, and applicable references.

Standards: Coordinated support for the maintenance platoon/section IAW SOP and applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Evaluated the tactical situation and OPORD requirements.	—	—
2. Determined support needed at each location.	—	—
3. Notified parent/supported units of support requirements.	—	—
4. Followed up to ensure support had been coordinated/was being provided.	—	—
a. Notified appropriate parent/supported units to resolve any problems.		
b. Addressed problems in after action review (AAR).		

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References
Required
FM 4-30.3

Related

**Select a Field Maintenance Site
091-CLT-4007**

Conditions: In a field environment, given an OPORD to establish a field maintenance site, maintenance personnel, equipment, and references.

Standards: Selected a field maintenance site IAW the OPORD and applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Considered the following elements of a good field maintenance site during the selection process:	—	—
a. Area should be reasonably flat and have good drainage.		
b. Area should have firm soil to permit parking and movement of heavy vehicles and equipment.		
c. Area should be accessible to support units.		
d. Terrain should facilitate defense.		
e. Area should be near built-up areas that can be used for mission support.		
2. Performed a map reconnaissance to determine possible sites.	—	—
3. Performed an area reconnaissance and site recons to determine the best site.	—	—
4. Informed higher headquarters of the field maintenance site location.	—	—
5. Relocated to the new field maintenance site.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References	Related
Required FM 4-30.3	

**Prepare an Operational Overlay for Maintenance Operations
091-CLT-4008**

Conditions: In a field or garrison environment, given a map, overlay material, maintenance situation/OPORD, and applicable references.

Standards: Prepared an operational overlay for maintenance operations by depicting key activities and elements within the area of operation IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured necessary references and materials were available.	—	—
2. Placed units/activities on the maintenance operations overlay using the appropriate symbols.	—	—
3. Placed key features of the area of operation on the overlay.	—	—
4. Updated the operational overlay, as necessary.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

- Required**
- FM 101-5-1
- FM 4-30.3
- FM 5-170

Related

**Control Flow of Work Through the Maintenance Shop
091-CLT-4009**

Conditions: In a field or garrison environment, given a maintenance shop including personnel, work orders, and applicable references.

Standards: Controlled the flow of work within the maintenance shop to ensure maximum production, effective use of personnel and facilities, and orderly progression of work so that overloads were prevented or corrected, and the shop was working near capacity with a manageable backlog.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Screened maintenance requests.	—	—
2. Assigned work to the appropriate shop section.	—	—
3. Maintained work load status for the various sections.	—	—
4. Directed repair priorities and additional actions(evacuation, operational readiness float (ORF), intra-shop, deferred) as applicable.	—	—
5. Ensured shop supply section orders/maintained repair parts, as required.	—	—
6. Improved operational procedures where necessary.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
FM 4-30.3
TC 43-4

Related

**Integrate Automated Logistics Support Systems
091-CLT-4010**

Conditions: In a field or garrison environment, given a Unit Level Logistics System-Ground (ULLS-G) computer system with software and equipment data base in a unit-level maintenance shop, a Standard Army Maintenance System-1 (SAMS-1) computer system with software and database in a direct support (DS)-level maintenance shop, a Standard Army Maintenance System -2 (SAMS-2) computer system with software and data base in a support operations section, and applicable publications.

Standards: Integrated automated logistics support systems in a maintenance shop IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Identified the architecture/interface of Army automated logistics systems.	—	—
2. Supervised ULLS-G functions in a unit-level maintenance shop.	—	—
3. Supervised SAMS-1 functions in a DS-level maintenance shop.	—	—
4. Supervised SAMS-2 functions in a support operations section.	—	—
5. Interfaced with Standard Army Retail Supply System-Objective (SARSS-O) for supply functions.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- AIMS 18-L21-AHN-BUR-UM
- AIMS 18-L26-AHO-BUR-EM
- AR 710-2
- DA PAM 710-2-1
- DA PAM 738-750

Related

**Plan Logistics Support for Maintenance Operations
091-CLT-4011**

Conditions: In a field or garrison environment, given an OPORD/maintenance situation, maintenance personnel and equipment, and applicable references.

Standards: Planned logistics support for maintenance operations IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Appraised the combat situation.	—	—
2. Determined support needed.	—	—
a. People (skills and numbers).		
b. Equipment (transportation, tools, TMDE, and communications).		
c. Supplies (components, assemblies, and repair parts).		
3. Organized resources to provide needed support.	—	—
4. Followed these planning considerations:	—	—
a. Number and type of units supported.		
b. Stock levels for repair parts.		
c. Forward displacement of maintenance support teams/maintenance collection points.		
d. Channels and procedures for recovery, collection, evacuation, and disposition of captured or abandoned materiel.		

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References
Required
 FM 4-30.3

Related

**Monitor the Preparation and Disposition of the Army Materiel Status System (AMSS) Reports
091-CLT-4012**

Conditions: In a field or garrison unit-level maintenance shop, given a unit level logistics system-ground (ULLS-G) computer system with AMSS software, AMSS reports produced from a ULLS-G system, and applicable references.

Standards: Verified accuracy of AMSS report data, identified maintenance trends and problems, and ensured timely completion and forwarding of reports IAW applicable references and SOP.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured necessary ULLS equipment and references were available.	—	—
2. Checked AMSS report data for accuracy and completeness.	—	—
3. Analyzed AMSS reports and data to identify maintenance trends and problems.	—	—
4. Notified supported units, logistics assistance office/logistics assistance representative, and chain of command, (as necessary), to resolve problems and prevent future occurrences.	—	—
5. Ensured AMSS reports were completed and forwarded through appropriate channels IAW SOP.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- AR 710-2
- DA PAM 710-2-1
- DA PAM 738-750

Related

**Analyze the Prescribed Load List (PLL) Report
091-CLT-4013**

Conditions: In a field or garrison unit-level maintenance shop, given PLL reports produced by ULLS-G system and applicable references.

Standards: Analyzed the PLL reports to ensure inventory accuracy and identified potential supply shortages/problems impacting on maintenance readiness IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured reports and references were available.	—	—
a. PLL inventory report.		
b. Zero balance report.		
c. PLL excess management report.		
d. PLL inquiries (as needed).		
e. NMC report.		
2. Performed random inventory checks and resolved discrepancies.	—	—
3. Determined expedient measures necessary to resolve not mission capable supply (NMC-S) equipment awaiting PLL items on the zero balance report.	—	—
4. Resolved discrepancies in report data within the ULLS-G system.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- AR 710-2
- DA PAM 710-2-1
- DA PAM 738-750

Related

**Monitor Quality Control Program
091-CLT-4014**

Conditions: In a field or garrison maintenance shop, given a maintenance facility/site, maintenance personnel, maintenance SOP, and applicable references.

Standards: Monitored the quality control program to ensure quality of work IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured quality assurance/quality control (QA/QC) inspectors were adequately trained and knowledgeable in their respective maintenance areas and were on orders from the commander, if required by SOP.	—	—
2. Ensured QA/QC inspectors followed maintenance SOP guidelines and procedures and TM procedures for initial and final inspections.	—	—
3. Performed periodic checks of inspectors' work for accuracy of initial diagnosis and quality of final inspections.	—	—
4. Ensured supervisors were conducting in-process inspections of work done by mechanics/technicians.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- AR 710-2
- DA PAM 710-2-1
- FM 4-30.3

Related

**Analyze Bench Stock Listing
091-CLT-4015**

Conditions: In a field or garrison DS-level maintenance shop, given a SAMS-1 generated bench stock listing (AHN-023) and applicable references.

Standards: Analyzed bench stock listing to identify supply problems that may impact maintenance readiness IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured report and references were available.	—	—
2. Performed random bench stock inventory checks.	—	—
3. Determined expedient measures necessary to resolve NMC-S equipment awaiting bench stock items.	—	—
4. Resolved any discrepancies in report data in the SAMS-1.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required	Related
AISM 18-L21-AHN-BUR-UM	
AR 710-2	
DA PAM 710-2-1	
DA PAM 738-750	

**Analyze Open Work Request Reconciliation Listing
091-CLT-4016**

Conditions: In a field or garrison DS-level maintenance shop, given a SAMS-1 generated open work request reconciliation listing and applicable references.

Standards: Analyzed the open work request reconciliation listing IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured references and equipment were available.	—	—
2. Conducted face-to-face reconciliation with team chief.	—	—
3. Supervised SAMS operator on purging operations.	—	—
4. Supervised SAMS operator on mail status returned on organizational disk.	—	—
5. Improved operational procedures where necessary.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References	
Required	Related
AIMS 18-L21-AHN-BUR-UM	
AIMS 18-L26-AHO-BUR-EM	

**Analyze Completed Shop Workload Summary
091-CLT-4017**

Conditions: In a field or garrison DS-level maintenance shop, given a SAMS-1 generated completed shop workload summary report and applicable references.

Standards: Analyzed the completed shop workload summary report IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured references and equipment were available.	—	—
2. Assigned workload to personnel, as required.	—	—
3. Tracked status of all jobs requiring parts.	—	—
4. Ensured once job was completed, parts were turned in and paperwork completed IAW local SOP.	—	—
5. Improved operational procedures, where necessary.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

AIMS 18-L21-AHN-BUR-UM

AIMS 18-L26-AHO-BUR-EM

Related

**Analyze Shop Deadline and Deferred Workload Listing
091-CLT-4018**

Conditions: In a field or garrison DS-level maintenance shop, given a SAMS-1 generated shop deadline and deferred workload listing report and applicable references.

Standards: Analyzed the shop deadline and deferred workload listing report IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured references and equipment were available.	—	—
2. Prioritized jobs by the status and priority code.	—	—
3. Tracked workload listing for proper status of operation and maintenance (O/M).	—	—
4. Supervised AHN-006, AHN-022, and AHN-026 reports.	—	—
5. Improved operational procedures where necessary.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References	
Required	Related
AIMS 18-L21-AHN-BUR-UM	
AIMS 18-L26-AHO-BUR-EM	

**Analyze Shop Workload Summary Listing
091-CLT-4019**

Conditions: In a field or garrison DS-level maintenance shop, given a SAMS-1 generated shop workload summary listing and applicable references.

Standards: Analyzed the shop workload summary listing IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured references and equipment were available.	—	—
2. Assigned workload to personnel, as required.	—	—
3. Tracked status of all jobs requiring parts.	—	—
4. Ensured once job was completed, parts were turned in and paperwork completed IAW local SOP.	—	—
5. Improved operational procedures where necessary.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- AISM 18-L21-AHN-BUR-UM
- AISM 18-L26-AHO-BUR-EM

Related

**Maintain Property Accountability
091-CLT-4020**

Conditions: In a field or garrison environment, given property and tools, property book listing and/or hand receipts, blank forms, and applicable references.

Standards: Maintained property accountability IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured all references, technical bulletins (TBs), supply catalogs (SCs), and forms were available.	—	—
2. Performed initial inventory of all property, tools, and equipment. <ul style="list-style-type: none"> a. Completed shortage annexes, as necessary. b. Reported all shortages, as necessary. c. Initiated report of survey or other property loss actions, as necessary. d. Ordered replacement items. 	—	—
3. Prepared sub-hand receipts for subordinate sections.	—	—
4. Had subordinates inventory all property, tools, and equipment on each respective subhand receipt and shortage annex and sign for property on hand.	—	—
5. Signed for property on property book or hand receipts, as applicable.	—	—
6. Performed periodic inventories of tools and sensitive items, as required.	—	—
7. Performed periodic partial or full inventories, as required.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

AR 710-2
DA PAM 710-2-1

Related

**Prepare Standing Operating Procedures for Maintenance Operations
091-CLT-4021**

Conditions: In a field or garrison environment, given FM 9-43-1, higher headquarters SOP(s), and commander's guidance.

Standards: Prepared a maintenance shop internal or external SOP for the commander's review, comment, and approval IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured applicable publications were available.	—	—
2. Prepared a maintenance shop internal or external SOP.	—	—
3. Ensured unit policies and commander's guidance were followed.	—	—
4. Ensured shop operation policies were adequately addressed.	—	—
5. Updated the shop SOP as required.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References
Required
FM 4-30.3

Related

Supervise the Deployment of Company Maintenance Team/Recovery Support Team/Maintenance Support Team
091-CLT-4022

Conditions: In a field or garrison environment, given a request for maintenance support/maintenance situation, map, operational overlay, grid coordinates of destination, vehicle(s), equipment, maintenance personnel, and applicable references.

Standards: Supervised the deployment of company maintenance team/recovery support team(s) IAW the maintenance situation/request for maintenance support and applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Reviewed the request for maintenance support/maintenance situation.	—	—
2. Ensured personnel and equipment to perform the mission were available.	—	—
3. Ensured resources for the company maintenance team/recovery support team/maintenance support team, including personnel with applicable MOSs, vehicle(s), tools, test equipment, publications, repair parts, time, and facilities were appropriately identified.	—	—
4. Ensured requirements for defending the team had been properly determined and arranged.	—	—
5. Ensured team leader(s) were briefed on the mission.	—	—
a. Reviewed the operational overlay.		
b. Conducted a map recon of the route and destination.		
6. Ensured the company maintenance team/recovery support team/maintenance support team was deployed.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
 FM 101-5-1
 FM 4-30.3
 FM 5-170

Related

**Conduct a Route Reconnaissance for a Maintenance Mission
091-CLT-4023**

Conditions: In a field environment, given a maintenance situation/OPORD, operational overlay, grid coordinates for a proposed route, map, vehicle with personnel, and applicable references.

Standards: Conducted a route reconnaissance for a given route identifying distances/times, problem areas along the route, possible bypasses or alternate routes, and prepared strip maps IAW the maintenance situation/OPORD and applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured necessary equipment and publications were available.	—	—
2. Determined the route to be used for the maintenance mission.	—	—
3. Performed a map recon of the route.	—	—
4. Contacted units along the route and coordinated passage.	—	—
5. Selected personnel to conduct the reconnaissance.	—	—
6. Reconned the route identifying key features to include: <ul style="list-style-type: none"> a. Potential problem areas (i.e., possible enemy contact, trafficability, etc.). b. Possible bypasses/alternate routes. 	—	—
7. Recorded information on a strip map for use by the maintenance team.	—	—
8. Advised the commander/staff officer on use of the route for maintenance missions.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
FM 4-30.3
FM 5-170

Related

**Conduct an Area Reconnaissance for a Maintenance Mission
091-CLT-4024**

Conditions: In a field environment, given a maintenance situation/OPORD, operational overlay, grid coordinates for a proposed occupation area, map, vehicle with personnel, and applicable references.

Standards: Performed an area reconnaissance, selecting the most appropriate location to establish a maintenance site IAW the maintenance situation/OPORD and applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured necessary equipment and publications were available.	—	—
2. Performed a map recon of the area.	—	—
3. Selected personnel to conduct the reconnaissance.	—	—
4. Reconned the area to determine suitability for maintenance operations, accessibility in and out of the site, defendability, and actions required for the safety of personnel and equipment.	—	—
5. Advised the commander/staff officer on occupying the area of operations based upon the reconnaissance.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
FM 4-30.3
FM 5-170

Related

**Manage Battlefield Maintenance Support
091-CLT-4025**

Conditions: In a field maintenance shop, given an OPORD/maintenance situation, maintenance personnel, equipment, and applicable references.

Standards: Managed battlefield maintenance support IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Appraised the combat situation and organized and prioritized support based on type of operation: a. Offensive operation. b. Defensive operation.	—	—
2. Planned for and executed appropriate maintenance support: a. Identified requirements. b. Identified available resources. (1) Personnel and skills. (2) Publications. (3) Time. (4) Facilities. (5) TMDE and tools. (6) Parts. c. Managed resources for maximum return, with priority on the following: (1) Maintenance support forward. (2) Commander's guidance. (3) Battle damage repair. (4) Controlled exchange. (5) Cannibalization. (6) Evacuation. (7) Recovery.	—	—
3. Followed priorities for repair of battle damaged systems: a. Most essential for completion of the immediate mission. b. Least amount of time to repair. c. Repairable, but not in time to continue the immediate mission. d. Damaged beyond repair candidate for cannibalization.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
FM 4-30.3

Related

**Perform Support Operations NCO Duties
091-CLT-4026**

Conditions: In a field or garrison environment, given a position as a support operations maintenance NCO, and applicable references.

Standards: Performed the duties of a support operations maintenance NCO, ensuring that the direct support (DS) maintenance mission is effectively coordinated and integrated within the battalion or support group.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Provided guidance on maintenance priorities within the unit.	—	—
2. Set objectives for maintenance shop production.	—	—
3. Monitored maintenance shop workflow and status of repair part requisitions.	—	—
4. Supervised, controlled, and directed the operation of battalion units for:	—	—
a. DS maintenance.		
b. Evacuation.		
c. Repair parts supply.		
d. Repairable exchange (RX).		
e. Technical assistance.		

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
FM 100-16
FM 4-30.3

Related

**Manage Maintenance Operations at a Maintenance Collection Point
091-CLT-4027**

Conditions: In a field maintenance environment, given an OPORD/maintenance situation, a maintenance collection point (MCP) site, maintenance personnel and equipment, and applicable references.

Standards: Managed maintenance operations at an MCP IAW the OPORD and applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Set up the MCP.	—	—
2. Managed flow of equipment for repair. <ul style="list-style-type: none"> a. Focused efforts toward repairing systems for current battle or start of next battle. b. Fixed 4 to 6 hour jobs at unit maintenance collection point (UMCP). c. Evacuated other equipment to brigade MCP or farther rear location. d. Maximized battle damage assessment repair (BDAR), cannibalization, and controlled exchange at central MCP. 	—	—
3. Managed company maintenance teams/recovery support teams/maintenance support teams held at MCP.	—	—
4. Managed prescribed load list (PLL) assets for forward combat units.	—	—
5. Relocated forward (as necessary) to continue fix-forward support.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
FM 4-30.3

Related

**Provide Maintenance Support During Tactical Operations
091-CLT-4028**

Conditions: In a field environment, given an operation order (OPORD)/maintenance situation, maintenance personnel and equipment, and applicable references.

Standards: Provided maintenance support during tactical operations IAW the OPORD and applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Provided maintenance support during offensive operations.	—	—
2. Provided maintenance support during defensive operations.	—	—
3. Provided maintenance support during retrograde operations.	—	—
4. Provided maintenance support during reconstitution operations.	—	—
5. Provided maintenance support during night operations.	—	—
6. Provided maintenance support in NBC environment.	—	—
7. Provided maintenance support during stability and support operations (SASO).	—	—
a. Peace operations.		
b. Humanitarian operations.		
c. Disaster relief operations.		
8. Provided maintenance support in the following adverse conditions.	—	—
a. Desert operations.		
b. Cold weather operations.		
c. Jungle operations.		
d. Mountain operations.		
e. Urban terrain operations.		

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required
FM 4-30.3

Related

APPENDIX A -**HANDS-ON EVALUATION (DA FORM 5164-R)
INSTRUCTIONS
(Excerpted from STP 21-24-SMCT, Appendix C)**

DA Form 5164-R (Hands-On Evaluation) allows the trainer to keep a record of the performance measures a soldier passes or fails on each task.

Before evaluation:

1. Obtain a blank copy of DA Form 5164-R, which you may locally reproduce on 8 ½" x 11" paper.
2. Enter the task title and 10-digit number from the STP task summary.
3. In Column a, enter the performance measure numbers from the task summary.
4. In Column b, enter the performance measure corresponding to the number in Column a (you may abbreviate this information if necessary).
5. Locally reproduce the partially completed form when evaluating more than one soldier on the task or when evaluating the same soldier more than once.

During evaluation:

1. Enter the date just before evaluating the soldier's task performance.
2. Enter the evaluator's name, the soldier's name, and the unit.
3. For each performance measure in Column b, enter a check in Column c (PASS) or Column d (FAIL), as appropriate.
4. Compare the number of performance measures the soldier passes (and, if applicable, which ones) against the task standards specified in the task summary. If the standards are met or exceeded, check the GO block under STATUS; otherwise, check the NO-GO block.

HANDS-ON EVALUATION For use of this form, see AR 350-57; the proponent agency is ODCSOPS		DATE	
TASK TITLE		TASK NUMBER	
ITEM a	PERFORMANCE STEP TITLE b	SCORE (Check One)	
		PASS c	FAIL d
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
EVALUATOR'S NAME		UNIT	
SOLDIER'S NAME		STATUS <input type="checkbox"/> GO <input type="checkbox"/> NO GO	

APPENDIX B -**FIELD EXPEDIENT SQUAD BOOK (DA FORM 5165-R)
INSTRUCTIONS
(Excerpted from STP 21-24-SMCT, Appendix C)**

DA Form 5165-R (Field Expedient Squad Book) allows the trainer to keep a record of task proficiency for a group of soldiers.

Before evaluation:

1. Obtain a blank copy of DA Form 5165-R, which you may locally reproduce on 8 ½" x 11" paper.
2. Locally reproduce the partially completed form if you are evaluating more than nine soldiers.

During evaluation:

1. Enter the names of the soldiers you are evaluating, one name per column, at the top of the form.
2. Under STATUS, record (in pencil) the date in the GO block if the soldier demonstrated task proficiency to soldier's manual standards. Keep this information current by always recording the most recent date on which the soldier demonstrated task proficiency. Record the date in the NO-GO block if the soldier failed to demonstrate task proficiency to soldier's manual standards. Soldiers who failed to perform the task should be retrained and reevaluated until they can meet the standards. When the standards are met, enter the date in the appropriate GO block and erase the previous entry from the NO-GO block.

After evaluation:

1. Read down each column (GO/NO-GO) to determine the training status of an individual. This will give you a quick indication of which tasks a soldier needs training on.
2. Read across the rows for each task to determine the training status of all soldiers. You can readily see which tasks to focus training on.
3. Line through the STATUS column of any soldier who leaves the unit.

GLOSSARY**Section I**
Abbreviations

AAR	after action review
AIT	advanced individual training
AMSS	Army Materiel Status System
AN	annually
ANCOC	Advanced Noncommissioned Officers Course
BA	biannually
BDAR	battle damage assessment and repair
BFV	Bradley Fighting Vehicle
BII	basic issue items
BNCOC	Basic Noncommissioned Officers Course
BOB	break-out box
BSA	brigade support area
BW	biweekly
CEV	combat engineer vehicle
CLT	common leader training
CWSS	commander's weapon station sight
DA	Department of the Army
DC	direct current
DCGE	digital command guidance electronics
DS	direct support
DSESTS	direct support electrical system test set
ESD	estimated shipment date
FIST	fire support team
FISTV	fire support team vehicle
FVS	fighting vehicle system

G/VLLD	ground/vehicular laser locator designator
GHS	gunner hand station
GPS	gunner's primary sight
HAZMAT	hazardous materials
i.e.	that is
IAW	in accordance with
ISU	integrated sight unit
ITV	improved tow vehicle
LAR	Logistics Assistance Representative
LRU	line replaceable unit
LTD	laser target designator
M	meter
MARKS	Modern Army Record Keeping System
MCP	maintenance collection point
MELIOS	mimi-eyesafe laser infrared observation set
mm	millimeter
MO	monthly
MOS	military occupational specialty
MOSC	military occupational specialty code
MSDS	material safety data sheet
MTP	MOS training plan
NBC	nuclear, biological, and chemical
NCO	noncommissioned officer
NCO-ER	noncommissioned officer evaluation report
NMC	Nonmission Capable
ORF	operation readiness float
PLL	prescribed load list
PMCS	preventive maintenance checks and services

QT	quarterly
RX	repairable exchange
SA	semiannual
SAMS	Standard Army Maintenance System
SARSS	Standard Army Retail Supply System
SC	supply catalog
SOP	standing operating procedure
SPORT	soldier's portable on-system repair tool
TB	technical bulletin
TCB	turret control box
TD	Training Development
TDB	turret distribution box
TM	technical manual
TMDE	test measurement and diagnostic equipment
TOW	tube-launched, optically tracked, wire-guided
TSCD	targeting station control display
ULLS	Unit Level Logistics System
ULLS-G	Unit Level Logistics System-Ground
UMCP	unit maintenance collection point
WK	weekly

REFERENCES

Required Publications

Required publications are sources that users must read in order to understand or to comply with this publication.

Army Regulations

AR 190-13	The Army Physical Security Program (This Item is Included on EM 0001). 30 September 1993
AR 190-51	Security of Unclassified Army Property (Sensitive and Nonsensitive) (This Item is Included on EM 0001) 30 September 1993
AR 220-1	Unit Status Reporting (This Item is Included on EM 0001) 1 September 1997
AR 25-400-2	The Modern Army Record Keeping System (MARKS) (This Item is Included on EM 0001) 26 February 1993
AR 385-10	The Army Safety Program (This item is included on EM 0001) 23 May 1988
AR 385-40	Accident Reporting and Records (This Item is Included on EM 0001) 1 November 1994
AR 385-55	Prevention of Motor Vehicle Accidents (This item is Included on EM 0001) 12 March 1987
AR 40-5	Preventive Medicine (This Item is Included on EM 0001) 15 October 1990
AR 600-55	The Army Driver and Operator Standardization Program (Selection, Training, Testing, and Licensing) (This Item is Included on EM 0001) 31 December 1993
AR 600-8-2	Suspension of Favorable Personnel Actions (FLAGS) (This Item is Included on EM 0001) 30 October 1987
AR 614-200	Enlisted Assignments and Utilization Management (This Item is Included on EM 0001) 31 October 1997
AR 623-205	Enlisted Evaluation Reporting System (This Item is Included on EM 0001) 31 March 1992
AR 635-200	Enlisted Personnel (This Item is Included on EM 0001) 5 July 1984
AR 700-138	Army Logistics Readiness and Sustainability (This Item is Included on EM 0001) 16 September 1997
AR 700-4	Logistics Assistance (This Item is Included on EM 0001) 30 June 1995
AR 710-2	Inventory Management Supply Policy Below the Wholesale Level (This Item is on EM 0001) 31 October 1997
AR 725-50	Requisition, Receipt, and Issue System (This Item is Included on EM 0001) 15 November 1995
AR 735-11-1	Uniform Settlement of Military Freight Loss and Damage Claims (This Item is Included on EM 0001) 1 January 1988
AR 735-5	Policies and Procedures for Property Accountability (This Item is Included on EM 0001) 31 January 1998
AR 750-1	Army Materiel Maintenance Policy and Retail Maintenance Operations (This Item is Included on EM 0001) 1 August 1994
AR 750-43	Army Test, Measurement and Diagnostic Equipment Program (This Item Is Included on EM 0001) 28 November 1997

Department of Army Pamphlets

DA PAM 25-30 Consolidated Index of Army Publications and Blank Forms (ISSUED QUARTERLY)(No Printed Copies Exist)(Formerly DA Pam 310-1)(This Item is Included on EM 0001) 1 April 2001

DA PAM 25-33 User's Guide for Army Publications and Forms (This Item is Included on EM 0001) 15 September 1996

DA PAM 385-1 Small Unit Safety Officer/NCO Guide 22 September 1993

DA PAM 710-2-1 Using Unit Supply System (Manual Procedures) (Standalone Pub) (This Item is on EM 0001) 31 December 1997

DA PAM 710-2-2 Supply Support Activity Supply System: Manual Procedures (This Item is on EM 0001) 30 September 1998

DA PAM 738-750 Functional Users Manual for The Army Maintenance Management System (TAMMS) (This Item is Included on EM 0001) 1 August 1994

DA PAM 750-1 Leader's Unit Level Maintenance Handbook (This Item is Included on EM 0001) 15 February 1994

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FM 100-16 Army Operational Support 31 May 1995

FM 101-5-1 Operational Terms and Graphics (MCRP 5-2A) 30 September 1997

FM 22-51 Leader's Manual for Combat Stress Control 29 September 1994

FM 23-14 M249 Light Machine Gun in the Automatic Rifle Role 26 January 1994

FM 23-27 MK 19, 40-MM Grenade Machine Gun, MOD 3 27 December 1988

FM 23-35 Combat Training With Pistols And Revolves

FM 23-65 Browning Machine Gun, Caliber .50 HB, M2 19 June 1991

FM 23-9 M16A1 Rifle and M16A2 Rifle Marksmanship 3 July 1989

FM 4-30.3 Maintenance Operations and Procedures 1 September 2000

FM 5-170 ENGINEER RECONNAISSANCE 5 May 1998

Lubrication Orders

LO 9-2350-222-12 Vehicle, Combat Engineer, Full-Track: M728 (This Item is Included on EM 0063) 4 May 1993

LO 9-2350-264-12 Tank, Combat, Full-Track: 120-mm Gun, M1A1(NSN 2350-01-087-1095) General Abrams (This Item is Included on EM 0069) 10 June 1992

Other Product Types

AISM 18-L21-AHN-BUR-UM Standard Army Maintenance System Level 1 (SAMS-1) End User Manual

AISM 18-L26-AHO-BUR-EM Standard Army Maintenance System Level 2 (SAMS-2) End User Manual

SC 4931-95-A22 Sets, Kits, Outfits, and Tools, Kit, Tank Turret and Artillery Mechanic's, Supplemental: (NSN 4931-01-115-5307) (LIN T57366) (EIC N/A) (This Item is Included on EM 0074) 1 September 2000

SC 4931-95-CL-A07 Sets, Kits, and Outfits Components List for Shop Equipment, Instrument and Fire Control: Field Maintenance, Basic, Less Power and Shop Equipment, Instrument and Fire Control: Field Maintenance, Basic Map Only

SC 4931-95-CL-A09 Set, Kits, and Outfit Components list for Tool Kits, Instrument and Fire Control System Repair: Field Maintenance (NSN 4931-00-947-8243) (LIN T15584) (24X Microfiche) 15 June 1983

SC 4931-95-J54 Sets, Kits, and Outfits for Purging Kit, Fire Control: Organizational, Direct, and General Support Maintenance (NSN 4931-00-065-1110) (LIN

	P70517) (EIC: N/A) (This Item is Included on EM 0074) 1 September 2000
SC 4933-95-A11	Shop Set, Small Arms: Field Maintenance, Basic, Less Power and Map Only (LIN W51499) (NSN 4933-00-754-0664) (EIC: 2JQ) (This Item is Included on EM 0074) 1 September 2000
SC 4933-95-A12	Set, Kits, and Outfits Components List, Shop Equipment, Artillery Maintenance: Field Maintenance, Set N, Less Power (NSN 4933-00-754-0704) (LIN T24523) (EIC: 2JZ) (This Item is Included on EM 0074) 1 September 2000
SC 4933-95-CL-A06	Sets, Kits, and Outfits Components List, Tool Kit, Artillery: Field Maintenance: Post, Camp, and Station, Set A
SC 5180-92-A96	Sets, Kits, and Outfits, Components List Tool Kit, GLLD/LTD System: Field Maintenance (LIN T39419) (NSN 5180-01-048-8570) (EIC: QLL) (This Item is Included on EM 0074) 1 September 2000
SC 5180-95-A07	Sets, Kits, and Outfits, Components Lists for Tool Kit, Small Arms Repairman (LIN W51910) (NSN 5180-00-357-7770) (EIC: N/A) (This Item is Included on EM 0074) 1 September 2000
SC 5180-95-A12	Sets, Kits, and Outfits Tools Kit, Artillery and Turret Mechanic's: Ordnance (NSN 5180-00-357-7727) (LIN W32182) (This Item is Included on EM 0074) 1 September 2000
SC 5180-95-B19	Sets, Kits, Outfits, Tool Kit, Turret Mechanics for Bradley Fighting Vehicle, 45T, Organizational Support (NSN 5180-01-115-5351) (EIC: N/A) (LIN T58051) (This Item is Included on EM 0074) 1 September 2000
SC 5180-95-B29	Tool Kit, Electronic System Maintenance (NSN 5180-01-168-0487) (LIN T38254) (EIC: 2KU) (This Item is Included on EM 0074) 1 September 2000

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TB 43-0142	Safety Inspection and Testing of Lifting Devices (This Item is Included on EM 0055 and EM 0178) 28 February 1997
TB 43-180	Calibration and Repair Requirements for the Maintenance of Army Materiel (This Item is Included on EM 0022) 1 December 2000
TB 750-25	Maintenance of Supplies and Equipment: Army Test, Measurement and Diagnostic Equipment (TMDE) Calibration and Repair Support (C&RS) Program (This Item is Included on EM 0022) 1 March 1997
TB 9-1000-247-34	Standards for Overseas Shipment of Small Arms, Aircraft Armament, Towed Howitzers Mortars, Recoilless Rifles, Rocket Launchers, and Associated Fire Control Equipment (Reprinted W/Basic Incl C1) (This Item is Included on EM 0065) 30 July 1987
TB MED 524	Occupational and Environmental Health: Control of Hazards to Health From Laser Radiation 20 June 1985

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TM 11-5860-202-10	Operator's Manual For Mini Eyesafe Laser Infrared Observation Set (Melios) AN/PVS-6 (NSN 5860-01-350-8551) (EIC: N/A) (This Item Is Included On EM 0163) 1 September 1995
TM 11-6625-3052-14	Operator's, Unit, Direct Support and General Support Maintenance Manual for Digital Multimeter AN/PSM-45 (NSN 6625-01-139-2512) (Reprinted w/Basic Incl C1-2) 10 January 1984
TM 11-6625-3052-24P	Organizational, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Multimeter, Digital, AN/PSM-45 (NSN 6625-01-139-2512) (This Item is Included on EM 0068) 3 February 1984

TM 750-116 General Procedures for Purging and Charging of Fire Control Instruments (Reprinted W/Basic Incl C1) (This Item is Included on EM 0063) 5 May 1993

TM 750-245-4 Direct Support and General Support for Quality Control Inspector's Inspection Criteria (This Item is Included on EM 0178) 25 January 1971

TM 9-1000-202-14 Evaluation of Cannon Tubes (This Item is Included on EM 0069) 1 February 1999

TM 9-1005-200-20&P Unit Maintenance Manual (Including Repair Parts and Special Tools List) for Gun, Automatic:25-MM, M242 (NSN 1005-01-086-1400)(EIC: 4TE)(TM 08672A-20&P/1)(Reprinted W/Basic Incl C1-2)(This Item is Included on EM 0043 and EM 0065) 18 May 1992

TM 9-1005-201-10 Operator's Manual For Machine Gun, 5.56-MM, M249 w/Equip (NSN 1005-01-127-7510) (EIC: 4BG) (TM 08671A-10/1) (Reprinted w/Basic Incl C1)(This Item is Included on EM 0065) 26 July 1991

TM 9-1005-201-23&P Unit and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Machine Gun, 5.56MM, M249 W/Equip (NSN 1005-01-127-7510) (EIC: 4BG) (TM 08671A-23&P/2A; To 11W3-5-5-52) (Reprinted w/Basic Incl C1-6) 14 December 1990

TM 9-1005-213-10 Operator's Manual for Machine Guns, Caliber .50; Browning, M2, Heavy Barrel Flexible, W/E (1005-00-322-9715) (EIC: 4AG) M48 Turret Type (1005-00-957-3893) (EIC: 4BB) Soft Mount (1005-LL-H11-5877) (Navy) Fixed Type Right Hand 6 August 1992

TM 9-1005-213-23 Unit and Direct Support Maintenance Manual for Machine Gun, Caliber .50; Browning, M2, Heavy Barrel Flexible, W/E (NSN 1005-00-322-9715) (EIC: 4AG) M48 Turret Type (1005-00-957-3893) (EIC: 4BB) Soft Mount (1005-01-343-0747) (Navy) Fixed 30 August 1994

TM 9-1005-213-23P Unit and Direct Support Maintenance Repair Parts and Special Tools List (Including DEPOT Repair, Parts and Special Tools List) for Machine Guns, Caliber .50; Browning M2, Heavy Barrel Flexible, W/E (NSN 1005-00-322-9715) (EIC: 4AG) M48 Turr 30 August 1994

TM 9-1005-301-30 Direct Support Maintenance Manual for Repair of Wooden, Fiberglass/Plastic or Plastic Components of Small Arms Weapons (Reprinted W/Basic C1-2) (This Item is Included on EM 0065) 20 October 1970

TM 9-1005-313-10 Operator's Manual for Machine Gun, 7.62-MM, M240 (NSN 1005-01-025-8095) and M240B (1005-01-412-3129) M240C (1005-01-085-4758) M240E1 (1005-01-252-4288) M240G (1005-01-359-2714) (TM 08670A-10/1A)(This Item is Included on EM 0065) 19 July 1996

TM 9-1005-313-23&P Unit and Direct Support Maintenance Manual (Including DEPOT Maintenance Repair Parts) for Machine Gun, 7,62-MM, M240 (NSN 1005-01-025-8095); Machine Gun, 7.62MM, M240C (1005-01-085-4758); Machine Gun, 7.62MM, M240E1 (1005-01-252-4288) and 17 June 1997

TM 9-1005-317-10 Operator's Manual for Pistol, Semiautomatic, 9MM, M9 (NSN 1005-01-118-2640) (Navy SW 370-AA-OPI-010/9MM; TO 11W3-3-5-1; TM-1005A-10/1; Comdinst M8370.6) (Reprinted W/Basic Incl C1-3) 31 July 1985

TM 9-1005-317-23&P Unit and Intermediate Direct Support Maintenance Manual Including Repair Parts and Special Tools List for Pistol, Semiautomatic, 9-MM, M9 (NSN 1005-01-118-2640) (TM 1005A-23&P/2A; SW 370-AA-MMO-010/9MM; TO 11W3-3-5-4;Comdinst M8370.7A) (Rep 16 October 1987

TM 9-1005-319-10 Operator's Manual for Rifle, 5.56 MM, M16A2 W/E(NSN 1005-01-128-9936) (EIC: 4GM); Rifle, 5.56 MM, M16A3 (1005-01-357-5112) Rifle,

5.56 MM, M16A4 (1005-01-383-2872) (EIC:4F9); Carbine, 5.56 MM, M4 W/E (1005-01-231-0973) (EIC: 4FJ); Carbine, 1 October 1998

TM 9-1005-319-23&P Unit and Direct support Maintenance Manual (Including Repair Parts and Special Tools List) for Rifle, 5.56 MM, M16A2 W/E (NSN 1005-01-128-9936) (EIC: 4GM) (TO 11W3-5-5-42) (Reprinted W/Basic Incl C1-3)(This Item is Included on EM 0065) 1 May 1991

TM 9-1010-230-10 Operator's Manual for Machine Gun, 40-MM, MK 19, MOD3 (NSN 1010-01-126-9063)(EIC:4AE)(TM 08521A-10/1A; TO 11W2-5-16-1; SW 363-C3-MMM-010)(This Item is Included on EM 0014) 28 November 1996

TM 9-1010-230-23&P Units and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Machine Gun, 40-MM, MK 19, MOD3 (TM 11W2-5-16-2; SW 363-C3-MMM-020))(This Item is Included on EM 0014) 20 December 1991

TM 9-1015-250-10 Operator's Manual for Mortar, 120mm: Towed M120 (NSN 1015-01-226-1672) (EIC: 4sl) and Mortar, 120mm: Carrier-Mounted M121 (1015-01-292-3801) (Eic: 4se) (Reprinted W/Basic Incl C1) 19 August 1996

TM 9-1015-250-23&P Unit and Direct Support Maintenance (Including Repair Parts and Special Tools List) (Including Depot Repair Parts) for Mortar, 120mm: Towed M120 (NSN 1015-01-226-1672) (Eic: 4SL) Mort 19 August 1996

TM 9-1025-211-10 Operator's Manual (Crew) for Howitzer, Medium, Towed: 155 MM, M198 (NSN 1025-01-026-6648) (EIC: 3EL) (TM 08198A-10/1) (Reprinted w/Basic Incl C1-2) (This item is included on EM 0125) 14 January 1991

TM 9-1025-211-20 Unit Maintenance Manual (Including Repair Parts and Special Tools List) for Howitzer, Medium, Towed: 155-MM, M198 (NSN 1025-01-026-6648) (EIC:3EL) TM 08198A-20&P/2 6 October 2000

TM 9-1025-211-34 Direct Support and General Support Maintenance Manual for Howitzer, Medium, Towed: 155-MM, M198 (NSN 1025-01-026-6648) (EIC: 3EL) TM 08198A-34/3 (Reprinted W/Basic Incl C1) (This lte 23 May 1991

TM 9-1025-211-34P Direct Support and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools) for Howitzer, Medium, Towed; 155-MM 19 August 1997

TM 9-1200-206-34-1 Direct Support and General Support Maintenance Manual VOL 1 of 3, Tank, Combat, Full-Tracked, 105-MM Gun, M1(NSN 2350-01-061-2445) (EIC: AAA) and Tank, Combat, Full Tracked: 105-MM Gun, IPM1 (2350-01-136-8738) (EIC: AAC) 24 April 1996

TM 9-1200-206-34-2 Direct Support and General Support Maintenance Manual Vol 2 of 3, Tank, Combat, Full-Tracked 105-MM Gun, M1 (NSN 2350-01-061-2445) (EIC: AAA) and Tank, Combat, Full Tracked: 105-MM Gun, IPM1, (2350-01-136-8738) (EIC: AAC) 24 April 1996

TM 9-1200-206-34-3 Direct Support and General Support Maintenance Manual Vol 3 of 3, Tank, Combat, Full-Tracked: 105-MM Gun, M1(NSN 2350-01-061-2445) (EIC: AAA) and Tank, Combat, Full Tracked: 105-MM Gun, IPM1(2350-01-136-8738) (EIC: AAC) 2 September 1987

TM 9-1200-206-34P Direct Support and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts) for M1, IPM1, and M1A1 General Abrams Sighting and Fire Control CANT Unit Assembly (NSN 1015-01-272-0862) 30 June 1998

TM 9-1240-272-34&P Direct Support And General Support Maintenance Manual Including Repair Parts and Special Tools List, Vol I - Troubleshooting, Vol li - Maintenance for Mount, Periscope: M119 8 February 1985

TM 9-1240-371-34	DS and GS Maintenance Manual for Fire Control Laser Range Finder, AN/VVG-2
TM 9-1240-375-34	Direct Support and General Support Maintenance Manual for Quadrant, Fire Control: M17(NSN 1290-01-037-3883), M18 (1290-01-037-7289); Mount, Telescope and Quadrant: M171(1240-01-039-7273); M172 (1240-01-037-7290); Telescope Panoramic : M137 26 September 1980
TM 9-1240-400-34&P	Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools List) for Telescope, Panoramic: M115 (NSN 1240-00-895-9186) Telescope, Elbow: M139 (1240-00-328-5631) Mount, Telescope: M138 (1240-00-896-2240) 8 October 1993
TM 9-1260-477-12	Operator and Organizational Maintenance Manual for Electro-Optical Target Designator Set, AN/TVQ-2 (G/VLLD) (NSN 1260-01-122-5234) (EIC: QLE), Equipment Set, Night Vision Sight Infrared, AN/UAS-12D (5855-01-316-6572) 23 January 1982
TM 9-1260-477-24P	Organizational and Intermediate Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools) for Electro-Optical Target Designator Set AN/TVQ-2 G/VLLD (NSN 1260-01-122-5234) and G/VLLD M113A1 31 August 1993
TM 9-1260-477-34-2	Direct and General Support Maintenance Manual for Target Designator Set, Electro-Optical, AN/TVQ-2 (G/VLLD) (NSN 1260-01-122-5234) and Vehicle Adapter Kit (1260-01-082-4981) (Reprinted W/Basic Incl C1-3) 23 February 1987
TM 9-1290-200-14&P	Operator's, Unit, Intermediate Direct Support and Intermediate General Support Maintenance Manual (Including Repair Parts and Special Tools List) for Quadrant, Fire Control Gunner's, M1A1, with M82 Carrying Case (NSN 1290-00-891-9999) 5 September 1988
TM 9-1290-262-24&P	Unit, Direct Support, and General Support Maintenance Manual (Including Repair Parts and Special Tools List) for Aiming Circle, M2A2, W/E (NSN 1290-01-067-0687) (EIC:3SC) (This Item is Included on EM 0041, EM 0065, EM 0117, and EM 0125) 22 September 1994
TM 9-214	Inspection, Care, and Maintenance of Antifriction Bearings 19 November 1959
TM 9-2320-364-20-2	Unit Maintenance Manual, Volume I I for Palletized Load System M1074/M1075 (NSN 2320-01-304-2277)(2320-01-304-2278) (This item is included on EM 0052) 4 August 1999
TM 9-2320-364-20-3	Unit Maintenance Manual, Volume III for Palletized Load System M1074/M1075 (NSN 2320-01-304-2277)(2320-01-304-2278) (This item is included on EM 0052) 1 August 1999
TM 9-2320-364-24P-2	Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Palletized Load System (PLS) M1074/M1075 (NSN 2320-01-304-2277)(2320-01-304-2278) (This item is included on EM 0052) 1 August 1999
TM 9-2330-203-14&P	Operator's, Organizational, DS and GS Maintenance Manual (Including Repair Parts and Special Tools List) for Dolly, Trailer Convertor: 6-Ton, 2-Wheel, M197 and 8-Ton, 2-Wheel, M198 24 January 1992
TM 9-2350-222-10-2	Vehicle, Combat Engineer, Full-Tracked: 165-mm Gun, M728
TM 9-2350-222-10-3	Vehicle, Combat Engineer, Full-Tracked: 165-mm Gun, M728
TM 9-2350-222-20-2-2	Organizational Maintenance Manual Troubleshooting Turret for Combat Engineer Vehicle, M728 (This Item is Included on EM 0063) 15 September 1980
TM 9-2350-222-20-2-3-1	Organizational Maintenance Manual Vol III - Part 1 Maintenance Turret for Combat Engineer Vehicle, M728 (This Item is Included on EM 0063) 15 September 1980

TM 9-2350-222-20-2-3-2 Organizational Maintenance Manual Turret for Combat Engineer Vehicle, M728, Vol III, Part 2 (This Item is Included on EM 0063) 15 September 1980

TM 9-2350-222-20P-2 Vehicle, Combat Engineer, Full-Tracked: 165-mm Gun, M728

TM 9-2350-222-24P Unit Maintenance, Direct Support, and General Support Maintenance Repair Parts and Special Tools Lists for Combat Engineer Vehicle, Full Tracked, M728

TM 9-2350-222-34-2-1 Vehicle, Combat Engineer, Full-Tracked: 165-mm Gun, M728

TM 9-2350-222-34-2-2 Vehicle, Combat Engineer, Full-Tracked: 165-mm Gun, M728

TM 9-2350-222-34-2-3 Vehicle, Combat Engineer, Full-Tracked: 165-mm Gun, M728

TM 9-2350-222-34-2-4 Vehicle, Combat Engineer, Full-Tracked: 165-mm Gun, M728

TM 9-2350-222-34P-2 Vehicle, Combat Engineer, Full-Tracked: 165-mm Gun, M728

TM 9-2350-252-10-2 Operator's Manual for Fighting Vehicle, Infantry, M2 (NSN 2350-01-048-5920)(EIC:APA) M2A1(2350-01-179-1027)(EIC:ALE) and Fighting Vehicle Cavalry, M3 (2350-01-049-2695)(EIC:APB) M3A1(2350-01-179-1028)(EIC:ALF) Turret (Reprinted W/Basic Incl 22 September 1986

TM 9-2350-255-10-2 Operator's Manual for Operations Under Unusual Conditions, Maintenance, and Ammunition VOL 2 of 2 Tank, Combat, Full-Tracked: 105-MM Gun, M1 (NSN 2350-01-061-2445) Tank, Combat, Full Tracked: 105-MM Gun IPM1 (2350-01-136-8738) General Abram 28 December 1990

TM 9-2350-259-10 Operator's Manual for Combat Vehicle, Antitank, Improved TOW Vehicle, M901A1 (NSNS 2350-01-103-5641) (EIC: AEV) (Reprinted W/Basic Incl C1-5) (This Item is Included on EM 0064) 30 April 1990

TM 9-2350-259-20 Unit Maintenance Manual for Combat Vehicle, Antitank, Improved TOW Vehicle M901A (NSN 2350-01-103-5641) (EIC: AEV) (Reprinted W/Basic Incl C1-3) (This Item is Included on EM 0064) 30 April 1990

TM 9-2350-259-24P Organizational, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Combat Vehicle, Antitank, Improved TOW Vehicle M901A1(NSN 2350-01-103-5641) (EIC:AEV) (This Item is Included on EM 0064) 16 October 1992

TM 9-2350-259-34 Direct Support and General Support Maintenance Manual for Combat Vehicle, Antitank, Improved TOW Vehicle M901A1 (NSN 2350-01-0103-5641) (EIC: AEV) (Reprinted W/Basic C1-4) (This Item is Included on EM 0064) 16 May 1990

TM 9-2350-264-10 Operator Controls, PMCS, and Operations Under Usual Conditions VOL 1 of 2 Tank, Combat, Full-Tracked: 120-MM Gun, M1A1(NSN 2350-01-087-1095) General Abrams (TM 08953A-10/1-1)(Reprinted W/Basic Incl C1-11)(This Item is Included on EM 0069) 25 September 1990

TM 9-2350-264-10-2 Operator's Manual for Unusual Conditions, Troubleshooting, and Maintenance VOL 2 of 2 Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 (NSN 2350-01-087-1095) General Abrams (TM 08953-10/1-2)(Reprinted W/Basic Incl C1-11)(This Item is Included 25 September 1990

TM 9-2350-264-20-1-2 Unit Maintenance Manual VOL 2 of 5 for Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 (NSN 2350-01-087-1095) General Abrams, Hull (TM 08953A-20/2-2)(Reprinted W/Basic Incl C1-13)(This Item is Included on EM 0069) 8 January 1988

TM 9-2350-264-20-1-3 Unit Maintenance Manual VOL 3 of 5 for Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 (NSN 2350-01-087-1095)(EIC:AAB) General Abrams, Hull (TM 08953A-20/2-3)(Reprinted W/Basic Incl C1-13)(This Item is Included on EM 0069) 6 January 1988

TM 9-2350-264-20-2-1 Unit Maintenance Manual VOL 1 of 4 for Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 (NSN 2350-01-087-1095)(EIC:AAB) General Abrams, Turret (TM 08953A-20/3-1)(Reprinted W/Basic Incl C1-2)(This Item is Included on EM 0069) 27 March 1996

TM 9-2350-264-20-2-2 Unit Maintenance Manual VOL 2 of 4 for Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 (NSN 2350-01-087-1095)(EIC:AAB) General Abrams, Turret (TM 08953A-20/3-2)(Reprinted W/Basic Incl C1)(This Item is Included on EM 0069) 27 March 1996

TM 9-2350-264-20-2-3 Unit Maintenance Manual VOL 3 of 4 for Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 (NSN 2350-01-087-1095)(EIC:AAB) General Abrams, Turret (TM 08953A-20/3-3)(Reprinted W/Basic Incl C1)(This Item is Included on EM 0069) 27 March 1996

TM 9-2350-264-20-2-4 Unit Maintenance Manual VOL 4 of 4 for Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 (NSN 2350-01-087-1095)(EIC:AAB) General Abrams, Turret (TM 08953A-20/3-4)(Reprinted W/Basic Incl C1-3)(This Item is Included on EM 0069) 27 March 1996

TM 9-2350-264-24-2 Unit Intermediate Direct Support and General Support Maintenance Manual for System Schematic, Tank, Combat, Full-Tracked: 120-MM Gun, M1A1,(NSN 2350-01-087-1095)(EIC:AAB) General Abrams Turret 23 April 1999

TM 9-2350-264-24P-2 Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts) for Tank, Combat, Full-Tracked, 120-MM Gun, M1A1(NSN 2350-01-087-1095) (EIC: AAB) General Abrams Turret 23 April 1999

TM 9-2350-264-34-1-2 Direct Support and General Support Maintenance Manual VOL 2 of 2 for Tank, Combat, Full-Tracked: 120-MM, M1A1 (NSN 2350-01-087-1095) General Abrams Hull (TM 08953A-34/5-2)(Reprinted W/Basic Incl C1-8)(This Item is Included on EM 0069) 28 October 1987

TM 9-2350-264-34-2-1 Direct Support and General Support Maintenance Manual Volume 1 of 2 for Tank Combat, Full-Tracked: 120-MM Gun, M1A1(NSN 2350-01-087-1095) (EIC: AAB) General Abrams Turret (TM 08953A-34P/6-1) 6 May 1996

TM 9-2350-264-34-2-2 Direct Support and General Support Maintenance Manual for Volume 2 of 2 Tank Combat, Full-Tracked: 120-MM Gun, M1A1 (NSN 2350-01-087-1095) (EIC:AAB) General Abrams Turret [TM 08953A-34/6-1] (This Item is Included on EM 0069) 6 May 1996

TM 9-2350-266-10 Operator's Manual for Carrier, Personnel, Full Tracked, Armored Fire Support Vehicle, M981(NSN 2350-01-085-3792) (EIC: AET) (Reprinted W/Basic Incl C1-3) (This Item is Included on EM 0040 & EM 0076) 14 July 1992

TM 9-2350-266-20 Unit Maintenance Manual for Carrier, Personnel, Full Tracked, Armored Fire Support, M981(NSN 2350-01-085-3792) (EIC:AET) (Reprinted W/Basic Incl C1-4) (This Item is Included on EM 0040) 30 April 1990

TM 9-2350-266-24P Organizational, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Carrier, Personnel, Full Tracked, Armored Fire Support Vehicle, M981(NSN 2350-01-085-3792) (EIC: AET) (This Item is Included on EM 0040 31 August 1992

TM 9-2350-266-34-1 Direct Support and General Support Maintenance Manual for Carrier, Personnel, Full Tracked, Armored Fire Support, M981(NSN 2350-01085-3752) (EIC: AET) VOL 1 (Reprinted W/Basic Incl C1-3) (This Item is Included on EM 0040 & EM 0076) 16 September 1990

TM 9-2350-266-34-2 Direct Support and General Support Maintenance Manual for Carrier, Personnel, Full-Tracked, Armored Fire Support, M981(NSN 2350-01-

	085-3792) VOL 2 (Reprinted W/Basic Incl C1-3) (This Item is Included on EM 0040 & EM 0076) 16 September 1990
TM 9-2350-284-10-2	Operator's Manual for High Survivability Fighting Vehicle, Infantry, M2A2 (NSN 2350-01-248-7619)(EIC:ALG) and Fighting Vehicle Cavalry M3A2 (2350-01-248-7620)(EIC:ALH) Turret (This Item is Included on EM 0043) 16 July 1996
TM 9-2350-284-20-1-2	Unit Maintenance for Fighting Vehicle, Infantry, M2A2 (NSN 2350-01-248-7619)(EIC:ALG) Fighting Vehicle, Infantry Operation Desert Storm M2A2 ODS (2350-01-405-9886)(EIC:APE) and Fighting Vehicle Cavalry M3A2 (2350-01-248-7620)(EIC:ALH) 31 May 1989
TM 9-2350-284-20-1-3	Unit Maintenance for Fighting Vehicle, Infantry, M2A2 (NSN 2350-01-248-7619)(EIC:ALG) Fighting Vehicle, Infantry Operation Desert Storm M2A2 ODS (2350-01-405-9886)(EIC:APE) and Fighting Vehicle Cavalry M3A2 (2350-01-248-7620)(EIC:ALH) 13 August 1990
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STP 9-45K14-SM-TG
19 SEPTEMBER 2001

By Order of the Secretary of the Army:

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0128803

DISTRIBUTION:

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PIN: 079348-000