

TRAINING LAND



Headquarters, Department of the Army

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Preface

This training circular incorporates changes to Training Circular 25-1, *Training Lands*. These changes:

- Redefine the circular's purpose. The circular provides unit, installation, and school commanders a standard methodology for identifying requirements for maneuver/training areas necessary to support live training. Where maneuver/training area requirements exceed resources, the circular provides guidance to develop creditable land acquisition proposals and defense of current maneuver/training areas. Also, unit commanders (brigade and below) are provided a tool to determine what they can accomplish in live training, given the maneuver/training area available. It also assists commanders develop their unit training strategies.
- Add units and maneuver area requirements for "echelons above division."
- Discuss contiguous and non-contiguous maneuver areas and connectivity among non-contiguous areas.
- Identify TRADOC School and other command/agency program of instruction maneuver area requirements.
- Provide maneuver/training area definitions.
- Provide considerations for planning maneuver/training areas for deployed forces.
- Describe the Integrated Training Area Management (ITAM) program objectives and goals.
- Identify sources for range and explosive safety requirements.
- Describe the importance of airspace management in training.
- Identify the environmental considerations that support regulatory compliance, land stewardship, and Army training.
- Provide a working guide for installation training and mobilization planners, engineers, and land acquisition project review boards at all levels of the active Army, Army National Guard, and Army Reserve.

Maneuver/training area requirements (identified in this circular) for heavy and light divisions, and echelons above division are based on Army Training and Evaluation Program Mission Training Plans. These documents provide the solid doctrinal base from which unit commanders develop their unit training strategies to train their units for combat. Most Army training and operational missions are conducted in a joint environment, especially those integrating air and electronic warfare capabilities. This circular does not identify the airspace (or maneuver land below) requirements for extended joint operations. Joint staffs must consider this extended requirement in their planning.

The proponent for this publication is the US Army Training Support Center, Fort Eustis, VA. Submit comments and recommendations on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to Commander, USATSC, ATTN: ATIC-ATML, Fort Eustis, VA 23604.

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

Chapter 1

The Need for Maneuver/Training Areas

“Every day, the Army trains soldiers and units while developing leaders. Effective training is the cornerstone of operational success...Training to high standards is essential for a full spectrum force: Army forces must train to, and maintain, the highest readiness levels.” FM 3-0, *Operations*, June 2001.

1-1. **Introduction.** The mission of the Army is to fight and win the nation’s wars and achieve directed national objectives. The training of soldiers, leaders, and units is the vital ingredient that assures the readiness of the force to accomplish this mission. To be effective, individual and collective training provides soldiers and leaders with the opportunity to practice battle-focused mission essential tasks in live training – field environments. This training is the culmination of the doctrinal training cycle. It is necessary to sustain current maneuver/training areas (see definitions, paragraph 1-9) to provide the enabling platform for execution of the annual multi-billion dollar investment in Operating Tempo (OPTEMPO), Flying Hours, Standards in Training Commission (STRAC), and the Combat Training Center (CTC) programs. When the installation commander determines there is a shortfall in maneuver/training areas, a clear and detailed process for acquisition of additional areas needed is provided.

1-2. Historical perspective

a. Changes in the operational environment, specifically the threat, land combat operations, and information and technology dimensions affect the way the Army shapes and synchronizes the battle, and how it employs tactical units on the battlefield. This new environment replaces the well-defined linear battleground and massed attacking and defending forces.

b. Today’s full spectrum operations include offensive, defensive, stability and support operations and range across the spectrum of conflict. These missions may occur simultaneously, may be combined or may transition from one to another and thus require skillful assessment, planning, preparation and execution. In order to successfully accomplish these missions, commanders focus their mission essential task list (METL), training time, and resources on combat tasks and conduct battle-focused training.

1-3. **International environment.** The potential for armed conflict between nation-states remains a serious challenge and the influence of non-state

actors has increasing regional and worldwide implications. Transnational groups conduct a range of activities that threaten US interests, for example terrorism, drug and arms trafficking and deliberate environmental damage. As these threats adversely affect US interests, military involvement may be required.

1-4. Transformation Force

a. The Army's current warfighting prowess is assembled around two force characteristics – heavy and light forces: heavy forces well equipped for war but difficult to deploy strategically; light forces that can respond rapidly worldwide, but lack staying power against mechanized or armored forces. The Army requires greater lethality, survivability, and deployability capabilities. The operational environment demands the Army adopt a new vision and make fundamental change to its forces.

b. In this new vision the Army will transform itself into a force capable of dominating the full spectrum of operations at all levels of conflict. In the early 21st Century the Army is committed to transforming itself from the current Legacy Force to the Objective Force. The Objective Force will be rapidly deployable, with the overwhelming combat power to fight and win decisively, worldwide.

c. This circular includes what is known about the Transformation Force. That force will evolve over time and this document will be revised appropriately.

1-5. Training the force

a. The major portion of soldier training and all collective training takes place in units. In units, soldiers build on basic tasks to attain skills not taught in initial entry training. Unit collective training develops effective combined arms teams consisting of fully integrated combat, combat support, combat service support, and joint elements. Essential to meeting Army training goals are the maneuver/training areas required to conduct combined arms training to standard.

b. Modernization of the Army's combat force incorporates technological advances that increase the lethality of weapon systems and the firepower available to combat units. Modernization also increases the speed, range, and mobility of land and air vehicles that comprise the Army's main striking force. Advances in weaponry, mobility, and technology require parallel developments in doctrine.

c. Particularly relevant to this training circular are the spatial ramifications of:

- (1) Enhanced firepower and maneuver in the battle area.

(2) The digital information revolution significantly increases the commanders' knowledge of friendly and enemy situations in his areas of operations and interest. This permits greater dispersion of the commanders' forces.

d. Requirements for maneuver/training areas will increase if Army commanders are to exercise the potential capabilities of emerging weapons and digital information systems.

e. The US Army (the Active Army, the Army National Guard, and Army Reserve) trains according to Army Training and Evaluation Programs (ARTEP) Mission Training Plans (MTP) and requires maneuver/training areas (maneuver areas, live-fire ranges, and surface danger zones) to support its training.

1-6. Maneuver/training areas for Reserve Components

a. The Army must be prepared to meet our nation's strategic commitments. The Reserve Component (RC) represents a substantial portion of the combat power necessary to meet these global missions. This includes equipping RC units with the latest weapon and tactical equipment systems. Individual and collective training is crucial to maintaining training readiness. Reserve Component units face unique challenges that include geographical dispersion and limited time to train.

b. With the increasing reliance on RC forces, come increased requirements for maneuver/training areas to support them. Training at RC Major Training Areas (MTA) may not be adequate. Alternatives for RC maneuver/training areas include:

(1) Training on Active Component (AC) installations in accordance with Memorandums of Agreement or Understanding (MOA/MOU).

(2) Acquiring or leasing additional maneuver/training areas.

1-7. Maneuver/training areas for mobilization requirements

a. Mobilization brings the armed forces to a state of readiness for war or other national emergency. It includes:

(1) Assembling and organizing personnel, supplies, and materials for active military service.

(2) Activating or federalizing the RC.

(3) Extending terms of service.

(4) Taking other actions to convert to a wartime posture.

(5) Conducting training of individual and unit tasks beyond peacetime requirements.

b. Full mobilization occurs when the United States (US) Congress declares war or a national emergency. It involves mobilizing all units in the force structure, all individual reservists, and the material resources needed for these units. Total mobilization involves expanding the armed forces beyond the approved force structure as well as mobilizing all national resources, including production facilities, to round out and sustain the force. Current Army planning places less emphasis on full and total mobilization and more on the preliminary levels of mobilization: the *Presidential Reserve Call-up* and *Partial Mobilization*. These are the levels of mobilization at which major mobilization of units occur, which will place significant demands on training land resources.

c. Upon mobilization, installations will deploy peacetime forces to execute assigned wartime missions. The impact of mobilization on maneuver/training area requirements depends on the installation's assigned mission. Installations designated as mobilization station Power Projection Platforms (PPP) and Power Support Platforms (PSP) must support, and train RC units and prepare those forces for deployment. Installations will serve as staging and embarkation ports to aid in processing and moving deploying units or support off-post facilities involved in these activities.

d. Installations designated Army training centers will expand the training base and must quickly respond to the challenge of surge requirements inherent in a major mobilization. They may provide:

(1) Basic training.

(2) Advanced individual training.

(3) One-station unit training.

(4) Leadership training (e.g., Officer Candidate School or Basic Noncommissioned Officer Course).

(5) Training required by the mobilization (Mob) Army program for individual training (ARPRINT) and Army mobilization plans. The Mob ARPRINT only addresses projected individual training requirements separately from RC unit training requirements. Training base expansion for individual training at Training and Doctrine Command (TRADOC), Medical Command (MEDCOM), and Special Operations Command (SOCOM) schools/training centers is a "Partial Mobilization" phenomenon and will consist of pre-deployment refresher/reclassification training for mobilized individual ready reserve (IRR) personnel.

e. The departure of AC units and arrival of RC units will occur as scheduled in accordance with Commander-in-Chief (CINC) operational plan requirements. The installation Director of Public Works (DPW) normally

prepares the installation Master Mobilization Plan (MMP). The plan projects the surge, peak, and sustained personnel and unit populations that will occur during mobilization. The MMP identifies facilities required to support missions, populations, and alleviate shortfalls in those facilities. Training facility requirements are a major element of the MMP. The Director of Plans, Training, and Mobilization (DPTM) develops this portion of the MMP. It includes requirements for classroom and other training buildings, ranges, surface danger zones (SDZ), physical training facilities, bivouac areas, and maneuver areas. Reserve Component units train to platoon maneuver standards as the foundation for company-level training. Essential RC training requires maneuver/training areas for M-16 qualification, Table VIII tank gunnery qualification, platoon maneuver and other tasks, conditions, and standards determined by Forces Command (FORSCOM) upon mobilization.

1-8. Maneuver/training areas for deployed forces

a. The Army has more than 140,000 soldiers and leaders forward stationed or deployed around the world. Forward-stationed forces have been in place for some time – Europe 55 years and Korea for 50 years, for example. In these cases, the Army, as a result of treaty agreements, has been provided control of maneuver/training areas to maintain the individual and collective training readiness of their units.

b. Contingency forces that are forward deployed are generally committed for a short period of time. They do not have a need for the same quantity and quality of maneuver/training areas as forward-stationed units. While deployed, unit commanders are guided by the following training considerations:

(1) Training is “opportunity training,” secondary to the mission and at the commander’s discretion.

(2) The training focus is the sustainment of perishable individual and crew skills, primarily weapons qualification and crew gunnery. Commanders must evaluate their unit’s readiness and plan for training to sustain such skills.

(3) Training should be supported by a training aids, devices, simulators, and simulations (TADSS) package.

(4) Based on the unit’s training needs and training resources available while deployed, the commander may develop plans for crew through platoon maneuver training using this circular’s standard methodology.

1-9. Maneuver/training area definitions. Army maneuver/training areas are described in Department of the Army (DA) Pamphlet (Pam) 415-28, *Guide to Real Property Category Codes*. The Pam defines “maneuver/training areas” as those designated for impact and detonation of all ordnance or those areas required for land-intensive training at the installation. These

maneuver/training areas are further defined in terms of the forces that use them as “light, amphibious, and heavy forces.” These three forces have common characteristics to include: “Different type units may work in support of one another (combined arms), or the unit may operate on its own to train a specific set of ARTEP tasks. Included in these areas are bivouac sites, base camps, and other miscellaneous training areas. Each area should be accounted for with a separate facility number and real property record.” Their unique definitions are:

a. Light forces - space for ground and air combat forces to train movements and tactics as specified in the unit’s ARTEP. The “light” designation refers to areas where maneuver may be restricted to only small units or units having only wheeled vehicles. “Light” maneuver/training areas cannot be used by “heavy” forces.

b. Amphibious forces - space for ground and air combat forces to train movements and tactics during amphibious (ship-to-shore) operations. Tasks can include both combat and logistics (especially logistics over the shore, LOTS).

c. Heavy forces - space for ground and air combat forces to train movements and tactics as specified in the unit’s ARTEP. The “heavy” designation refers to areas where maneuver is unrestricted and can consist of all types of vehicles and equipment, including tracked vehicles. “Heavy” maneuver/training areas can be used by “Light” forces.

Chapter 2

Operations

“Army forces today are the preeminent land forces in the world. That preeminence translates into the ability to dominate land operations... Only land forces can exercise direct, continuing, discriminate and comprehensive control over land, people, and resources.” FM 3-0, *Operations*, June 2001.

2-1. Introduction

a. All training assets and resources must be considered and appropriately included in the commander’s unit training strategy. To ensure mission accomplishment, unit training readiness is best achieved by performance-oriented execution of mission essential tasks in live, virtual, and constructive training. But only in live training, with combat-like conditions, can most unit collective tasks be assessed for performance to standard.

b. In accordance with Training Circular (TC) 5-400, *Environmental Planning and Risk Management*, commanders must consider the effects of training on the environment and the communities around the installation in evaluating alternatives to execute new and changing missions. Federal, state, and local laws require Army compliance with environmental and pollution abatement regulations for air, water, and noise pollution control, solid waste management and threatened or endangered species. Requirements may include filing for construction or operation permits with federal, state, or local regulatory agencies. Requirements of the National Environmental Policy Act (NEPA) of 1969 may also require an environmental assessment or environmental impact statement (EIS) documentation. This requires close coordination among installation staff elements and the local communities during all phases of planning.

c. The continuous use of maneuver/training areas will result in maneuver damage. Army commanders, their trainers, and land managers must train mission requirements to standards. They must make sound management decisions to minimize the maneuver damage impacts, best utilize limited repair funding, and sustain maneuver/training areas for follow-on commanders.

d. The Army’s Integrated Training Area Management (ITAM) program in conjunction with the installation environmental staff establishes procedures to achieve optimum, sustainable use of maneuver/training areas by implementing a uniform land management program. The ITAM program includes inventorying and monitoring maneuver/training area conditions,

integrating training requirements with land-carrying capacity, educating users to minimize adverse impacts, and providing for maneuver/training area rehabilitation and maintenance. See paragraph 2-5 of this circular for more discussion of the ITAM Program.

e. The installation range operations, natural resources, and ITAM staffs can assist commanders in identifying environmental issues and best use of maneuver/training areas to support training to standard.

2-2. Commanders' maneuver land use

a. Realistic unit collective training is essential and constraints to it must be minimized. Unit commanders must train using the training principles contained in Field Manual (FM) 25-100, *Training the Force*, and FM 25-101, *Battle Focused Training*. Experience shows a direct correlation between realistic training and success on the battlefield. The Army cannot rely on combat to provide leaders and soldiers the experience necessary to execute fire and maneuver to defeat an enemy. However, just as safety considerations impact the training battlefield tempo, the need to sustain a re-usable land base is part of the commander's risk assessment during mission planning.

b. Doctrinal changes and technological advances have impacted both training concepts and training space requirements. Maneuver units need as much space to fire, maneuver, and resupply in training as they would in combat. The live-fire ranges and SDZs necessary to fire weapons at maximum ranges and to maneuver forces over realistic distances, require large quantities of maneuver/training areas – some contiguous and some not. For example, heavy and light ground forces need contiguous maneuver/training areas to support “free-flowing exercises.” Such exercises support the conduct of ARTEP missions without stopping after each mission to reposition forces for the next mission. This also eliminates the training distracters of repositioning forces and wasting valuable training time. Aviation units require the airspace, but only a fraction of the ground space over which they fly. Signal units require the airways, but only a fraction of the maneuver area over which they communicate. Transportation units may only need public roads that connect maneuver/training areas.

c. Corps and division installations can use virtual and constructive simulations to develop expertise in brigade, division, and corps operations. These simulations support achieving training proficiency, but cannot replace hands-on experience gained in live training. Brigade-sized units (including regiments and groups) must train to execute their ARTEP MTP tasks as part of the division battle. The brigade combat team needs sufficient maneuver/training areas to deploy its battalion task forces and position combat support and combat service support units. Sufficient maneuver area must be available to represent the modern battlefield. However, that maneuver area may be limited as a result of its configuration or unusable terrain. Reducing unit frontages and the number of brigades aligned along the front permits training the division battle when there are width constraints. Decreasing the distance between maneuver brigades and their

support units or locating support units in an area not contiguous to the maneuver brigades can reduce the division's depth requirement. While not ideal for battlefield realism, these measures will allow divisions to use available terrain to exercise brigade task forces.

d. The brigade is the lowest level where the Battlefield Operating Systems can be integrated and synchronized. Installation commanders should ideally have adequate maneuver/training areas to conduct brigade-level operations. Most installations do not have this capability.

e. The battalion is the lowest echelon at which all elements of the combined arms team fight together and it is the focus of the battle in combat. Battalion commanders anticipate enemy actions, maneuver their combined arms team over large areas, and effectively mass firepower and forces at the decisive time and place to engage and defeat the enemy. The battlefield area occupied by a battalion is based on a number of variables. Army Training and Evaluation Program MTP define tasks, conditions, and standards that enable battalion commanders to create training environments that simulate battlefield conditions.

2-3. Unit Commanders' land-use planning

a. Unit commanders (corps and below) and their staffs must determine the maneuver/training areas necessary and available to support live training of their mission essential tasks and their training strategy. This paragraph's focus is METL development (as determined by WARTRACE aligned or other senior commanders) and the planning process of the training management cycle in support of brigade, battalion, and company live training of those METL tasks. These processes are discussed here and shown in Figure 2-1. More details concerning this process are available in FMs 25-100 and 25-101. Virtual and constructive training are essential parts of the commander's training strategy. For example, live training force-on-force exercises should be supported by tactical engagement simulation. The commander must determine the correct mix of live, virtual, and constructive training that will best support his unit's training strategy.

b. Mission essential task list development is a commander's analysis of war plans and external directives to compile tasks critical for wartime mission accomplishment. These tasks constitute the unit's METL and are approved by the next higher headquarters. Commanders establish training objectives supporting the conditions and standards for each mission essential task providing a clear statement of expected training performance. Next, battle tasks are selected for each mission essential task on the list. Battle tasks are critical because their accomplishment determines the success of the next higher unit's mission essential tasks. Commanders are responsible to develop a training strategy that will maintain unit METL training proficiency.

c. The initial action in the planning process is the commander's training assessment. He compares the unit's current level of training proficiency with

the desired level of warfighting proficiency in terms of “trained,” “needs practice,” “untrained,” and “unknown.” The commander’s training vision follows his training assessment. It is his broad concept for training the unit to achieve and sustain wartime proficiency. The commander’s vision is supported by unit goals to ensure common understanding and create a team approach.

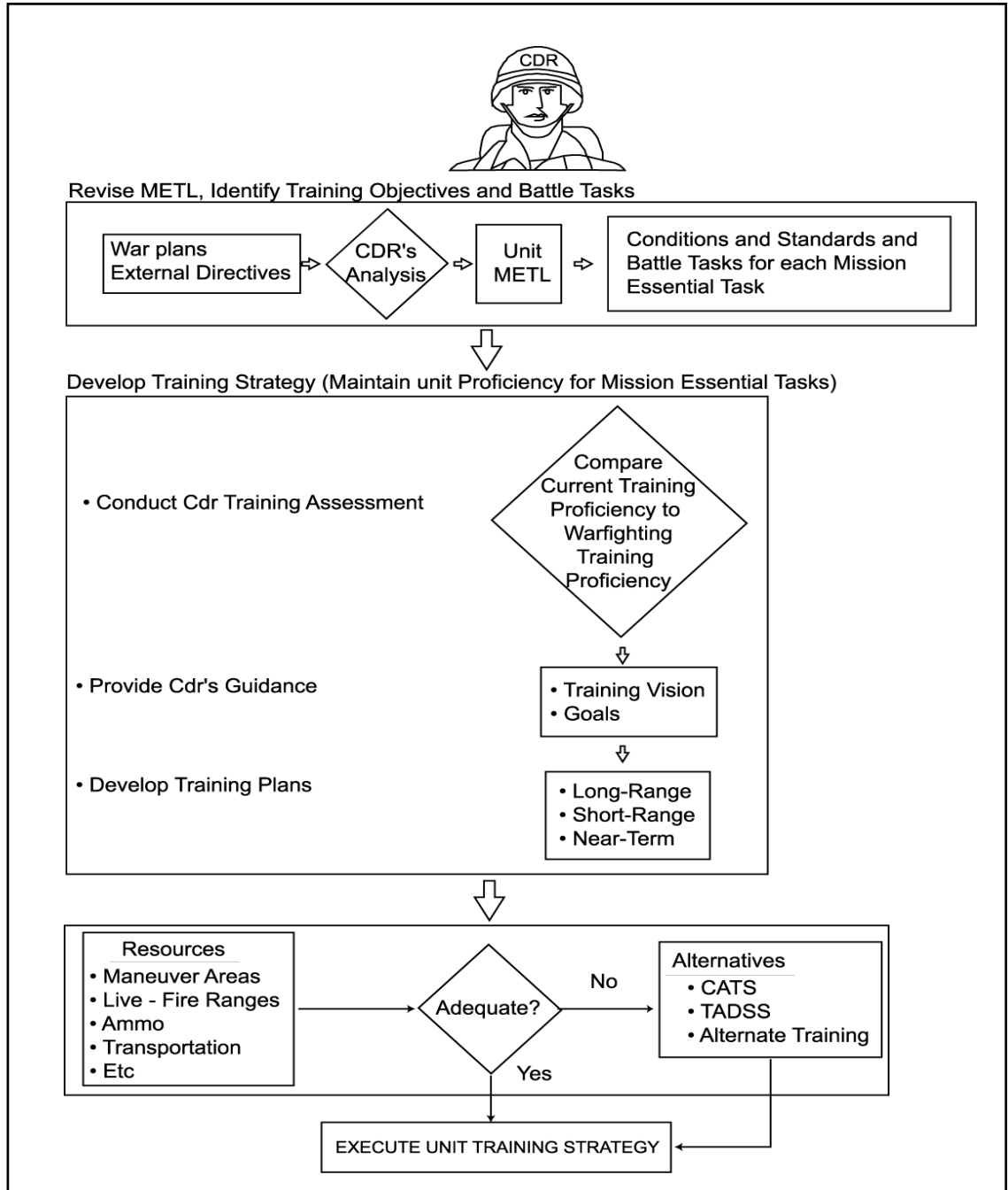


Figure 2-1. METL development, training planning, and training alternatives

d. The commander and his staff next develop long-range, short-range and near-term training plans.

e. Resources to support live training, especially maneuver/training areas (Appendix A, this circular), are identified and requested during long-range planning. These resources are adjusted or confirmed as subsequent short-range and near-term training plans are finalized.

f. If adequate maneuver/training areas are not available to support unit live training, the commander examines other training alternatives. The combined arms training strategy for his unit may identify TADSS to support attaining training proficiency in live, virtual, or constructive training. The commander may also examine how to conduct live training on the maneuver/training areas available to his unit. For example, the battalion commander's assessment identified defense and offense tasks that require additional training. The available maneuver area, while adequate in depth, will support just one company defensive frontage. Working with this limited maneuver area, the battalion commander orders Company A to establish a defensive position on the terrain available. Company B, also defending, is simulated with members of the battalion staff to represent the simulated company for coordination purposes. Company B is ordered to conduct an attack with its objective the high ground occupied by Company A. Company C meanwhile conducts live-fire exercises on a nearby range. As the training progresses and mission essential task standards are assessed as having been achieved, the companies rotate among the three missions – defense, offense, and live-fire.

2-4. Range Facility Management Support System. The Range Facility Management Support System (RFMSS) is an automated range and training area management system. This system provides centralized scheduling of training assets, predict training impacts on training land, and provides detailed reports. Army units, using RFMSS, can request maneuver areas and ranges through modem access or local area network connections. Range control staffs use RFMSS to control all scheduling and real-time use of maneuver areas and live-fire ranges. The ITAM staff can use the ITAM Module in RFMSS to predict the impact on training lands. The impact is measured in Maneuver Impact Miles (MIM) using the Army Training and Testing Area Carrying Capacity (ATTACC) methodology. Basic RFMSS functional modules are:

a. Scheduling. This module produces a reservation that contains the unit conducting training and the training event, dates, and location.

b. Communications. This module contains real-time training information to include facility status, ammunition usage, scheduled radio checks, and officer-in-charge and safety officer assignments.

c. Integrated Training Area Management. This module enables the system to calculate the impact, in MIMs, of scheduled activities on training lands.

The MIMs are a combination of unit types, vehicle characteristics and miles, and training events.

d. Utilization. This module allows the range control staff to track the use of training ranges and lands.

e. Documentation of ammunition expenditures.

2-5. Training land sustainment, management, and maintenance

a. The Army maintains effective training readiness while practicing good stewardship of the land. While factors such as cultural resources, endangered species habitats, wetlands, and soil erosion can limit military use of land, the environment can be treated as a training resource rather than a constraint. Realistic conditions for training can be achieved through management of vegetation and terrain. Much of this can be accomplished with environmental models, procedures, and technologies available through the ITAM and Conservation programs. The ITAM program exists at installations throughout the Army and is incorporated in AR 350-4, *Integrated Training Area Management (ITAM)*. The ITAM program objectives are to:

(1) Achieve optimal sustained use of lands for the execution of realistic training and testing, by providing a sustainable core capability, which balances usage, condition, and level of maintenance.

(2) Implement a management and decision-making process, which integrates Army training and other mission requirements for land use with sound natural resources management.

(3) Advocate proactive environmental conservation and land management practices. Align Army training land management priorities with the Army training and readiness priorities. Integrate the ITAM program with the Integrated Natural Resources Management Plan (INRMP) and Integrated Cultural Resources Management Plan (ICRMP).

b. The long-term value of the ITAM program at an installation is that it provides:

(1) Better training areas for realistic training.

(2) Reduced costs of land management and training.

(3) A proactive approach to compliance with environmental requirements and coordination with the installation environmental program.

(4) A demonstrated reputation for good land management.

(5) Informed, objective analysis in environmental assessments and land acquisition studies as a result of factual environmental data.

Chapter 3

Maneuver/Training Area Requirements Analysis

“Land combat takes place among a complex variety of natural and manmade features. The complexity of the ground environment contrasts significantly with the relative transparency of air, sea, and space.....”
FM 3-0, *Operations*, June 2001.

3-1. Introduction

a. The installation commander and his staff are responsible for analyzing the adequacy of maneuver/training areas to support individual and collective training requirements. They use the Range and Training Land Program (RTLTP) methodology to determine maneuver/training area requirements. The RTLTP is an analytical, planning, and management tool.

b. Using the RTLTP methodology and the Army RTLTP Requirements Model (ARRM), the installation commander and his staff generate the RTLTP Development Plan (RDP). The RDP identifies maneuver/training area users (customers), and establishes training requirements based on Army training doctrine and resource guidance. It establishes current requirements and utilization levels for available training assets, providing a near- and long-term project plan for training, public works, and environmental planners. The durability and the sustainability should be determined by the ITAM and environmental staffs. The commander may choose to exceed the recommended limits but he should be guided by ITAM land-carrying capacity methodologies, sound business investment practices, and environmental law.

c. Army Regulation (AR) 210-21, *The Army Range and Training Land Program*, assists the installation commander in determining maneuver/training area requirements and initiating the land acquisition process. It also describes the Army Training Land Analysis Model (ATLAM) multi-step process. To use AR 210-21 go to: (<http://www.usapa.army.mil>), then to Army Administrative & Electronic Publications, then to the AR 145-350 series.

d. The ATLAM described in AR 210-21 is a three-step action that begins with a Land Use Requirements Study (LURS). Step two is an Analysis of Alternatives Study (AAS). If a valid maneuver/training area deficiency is identified, step three is initiated. This step consists of the initiation of an assessment which produces an EIS and development of a Real Estate Planning Report.

e. There are two tools available to assist installation commanders using the ATLAM process. One is the ARRM and the other is this training circular.

f. The ARRM is an internet-based live training model that provides Headquarters Department of Army (HQDA) and Major Army Commands (MACOM) an analysis and assessment of installation live training capabilities and throughput requirements. Included in the ARRM are live training asset inventories (e.g., maneuver/training area in square kilometers), live training requirements of Active and Reserve Component forces, and institutional training. Selected training assets are also included in the ARRM qualitative analysis. Access to the ARRM can be acquired through the internet, (www.rkeng.com).

3-2. Army Training Land Analysis Model

a. The ATLAM methodology uses an acre-day approach to calculate maneuver/training area requirements. Figure 3-1, shows the ATLAM process for maneuver/training area acquisition. See Appendix A for area requirements in square kilometers (km²) for ARTEP MTP tasks performed by units through battalion. Multiplying area requirements by unit densities (at the installation), the number of iterations required annually to sustain proficiency, and the number of days per iteration yields the gross km²-days required to accomplish the MTP task. The ATLAM methodology converts km²-days and computes total acreage requirements. Examples of the calculations follow:

- MTP gross km²-days (MTP 71-1, *Mechanized Infantry Company*, movement to contact)
 - Density of units (per division): 20 companies (mechanized division)
 - Area requirements: 6 km x 14 km = 84 km²
 - Iterations required annually to maintain proficiency: 3
 - Days per iteration: 1
 - Gross land required: 84 km² per company x 3 iterations per company x 1 day per iteration x 20 companies = 5040 km²-days.
- Acres required to accomplish training
 - Total km²-days = 5040 km²-days
 - Annual training days required: 60 days (20 companies x 3 iterations per company x 1 day per iteration)
 - Acres per km² = 247.1 acres. Acre-days: 5040 km²-days x 247.1 acres per km² = 1,245,384 acre-days.

■ Acres required: $\text{acre-days} \div 60 = (1,245,384 \text{ acre-days}) \div 60 \text{ days} = 20,756 \text{ acres}$

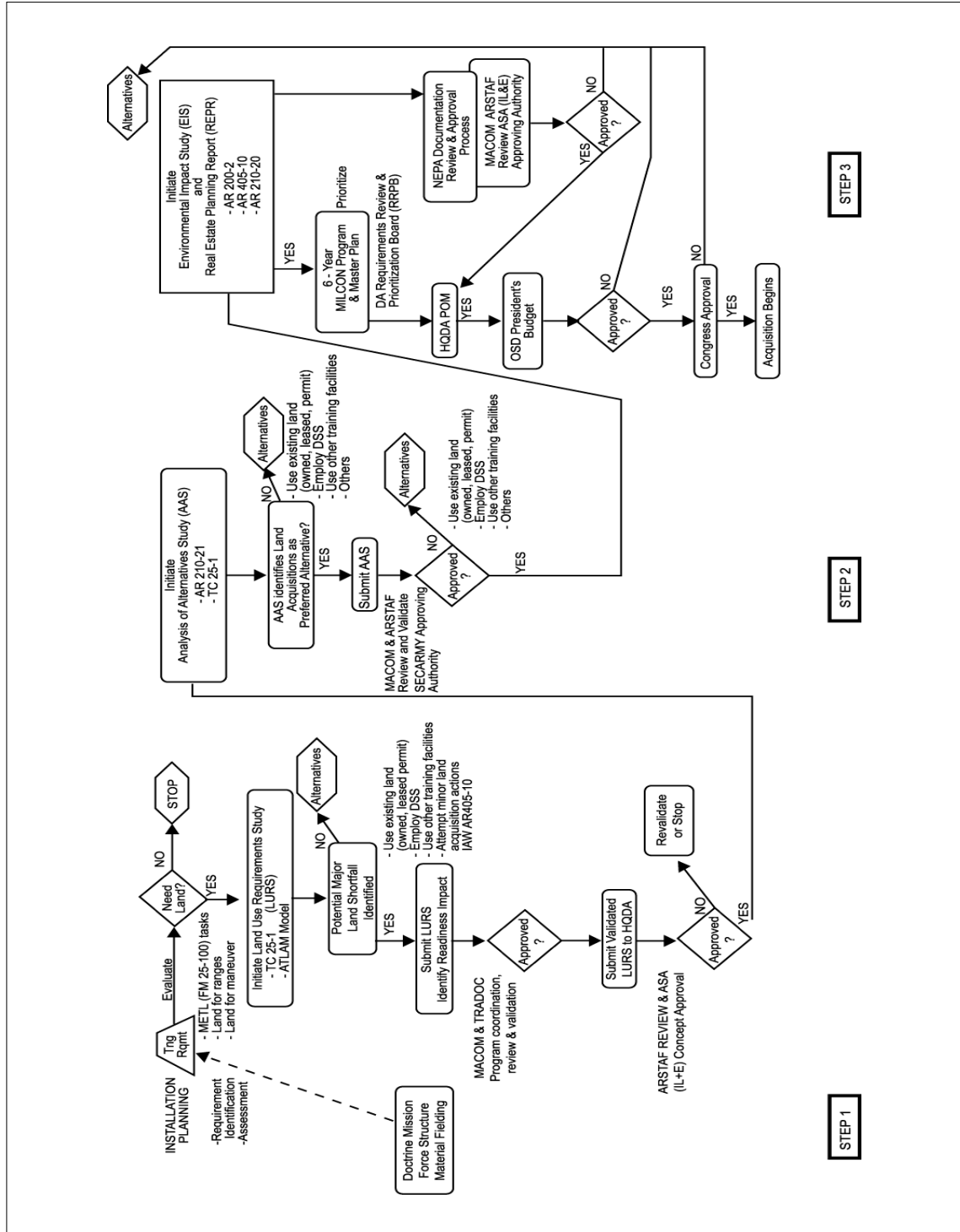


Figure 3-1. Army Training Land Analysis Model (ATLAM)

b. The MTP maneuver area requirements combine both maximum weapon ranges and maneuver frontage and depth requirements. Because of this, the terrain at some installations may permit slight reductions in maneuver/training area requirements if rising terrain or hill masses contain projectiles fired by direct-fire weapons.

c. To compute the installation acres required to accomplish total unit MTP training tasks, divide the gross acre-days for all tasks by the annual training days available (rather than the number of days required to accomplish a single task as shown in the example). Annual training days are categorized as baseline, moderate, or intensive. Baseline training days represent the Army's goal. Moderate training days include weekends as training days. The number of intensive training days assumes mobilization under national emergency conditions. Table 3-1 shows an example of annual training days.

Table 3-1. Annual training days

Events	Intensive	Moderate	Baseline
Start	365	365	365
Christmas/New Year		(15)	(15)
Five legal 3-day weekends		(15)	(15)
Independence Day		(1)	(1)
Thanksgiving weekend		(4)	(4)
Remaining weekends			(88)
Maintenance days	Installation specific		
Total	365	330	242

3-3. Maneuver area requirements

a. As a minimum, installations need contiguous maneuver areas large enough to support the largest training event conducted at home station. Appendix A provides maneuver area requirements for ARTEP MTP training events. Calculate space requirements as shown in the paragraph 3-2.

b. When planning maneuver/training area requirements, consider airspace requirements. Airspace is a critical element in combined arms training. Provisions must be made to designate airspace for airborne intelligence-gathering platforms, close air support, air defense and field artillery, and mortar firing as part of the combined arms team. Army Regulation 95-2, *Air Traffic Control, Airspace, Airfields, Flight Activities, and Navigational Aids*, and AR 385-63, *Policies and Procedures for Firing Ammunition for Training, Target Practice, and Combat*, provide information on designating, using, and managing special-use airspace. Federal Aviation Administration Handbook 7400.2 provides stipulations and requirements.

c. The Army continues to undertake new missions (for example, stability and peacekeeping) with specific pre-deployment training requirements. These vary by mission, type of force, and location of deploying units. Installation and headquarters staffs should identify these requirements to assist in planning training and for revisions of this circular.

3-4. Range and SDZ requirements

a. Live-fire range and SDZ requirements depend on the type and mission of units assigned to or supported by the installation and the weapon systems used. Training Circular 25-8, *Training Ranges*, describes Army standard ranges. It provides guidelines for selecting ranges to support individual and collective training requirements. It also provides information for calculating training throughput requirements and range throughput capacities. Department of the Army Pam 350-38, *Standards in Weapons Training*, and DA Pam 350-39 *Standards in Weapons Training (Special Operations Forces)* provide:

- (1) Weapon qualification standards.
- (2) Unit training readiness condition (TRC) levels.
- (3) The number of iterations of training required annually.
- (4) Ammunition allocations for each weapon system.

b. Army Regulation 385-63, *Training Ranges, Range Safety Standards*, provides instructions for developing SDZs and computing impact area requirements for Army weapon systems. The SDZs must be determined for each firing point. They are a major factor in calculating the area requirements for ranges and impact areas.

c. Army Regulation 210-21 and TC 25-8 describe the range-development process used by installation range planning teams. To develop range and impact area requirements, the planning team must:

- (1) Establish the number and type of ranges required at the home station based on mission essential task training requirements, other training events, and TC 25-8 guidelines.
- (2) Determine the SDZ for each weapon and firing point using AR 385-63 instructions. If applicable, include vertical danger zone and airspace requirements.
- (3) Establish an impact area for each weapon system.
- (4) Design multipurpose and multiuse ranges and common impact areas whenever possible.
- (5) Avoid establishing more than one contaminated impact area (an impact area used for firing dud-producing ammunition).
- (6) Position ranges and impact areas so that they do not restrict maneuver area use.

3-5. Mobilization requirements. Mobilization requirements for maneuver areas, ranges, and SDZs require special consideration. The transition period immediately following Mobilization Day deserves careful attention when both AC and RC units are on the installation and mobilized IRR personnel begin arriving for pre-deployment training. This may require additional maneuver/training areas on a short-term basis. Careful scheduling of facilities, expanding the training support work force, or extending the annual training days to the “intensive” level (see Table 3-1) may satisfy training requirements. Upgrading facilities, using other federal or state-owned land or executing standing maneuver rights agreements and leasing arrangements may also satisfy the mobilization training requirements.

3-6. Unusable installation land

a. To assess the quality of installation maneuver/training areas, planners must subtract unusable land from the gross acreage figures. Natural resource managers can provide planners with information on the acreage of sensitive and unusable land. Unusable land includes a number of items identified in Table 3-2. The ARTEP MTP figures used in Appendix A to calculate maneuver area requirements include some provision for unusable land. Maneuver units may achieve effective training on smaller areas if ideal terrain is available. This especially applies to installations with extremes in terrain relief and ground cover. Table 3-2 identifies potential constraints on usable training land.

Table 3-2. Potential constraints on usable training land

Areas for Consideration	Remarks
Water sites	Post utilities, recreation areas, and large bodies of water off limits for training.
Environmental restrictions	Erosion control, pollution prevention, noise avoidance, wildlife management, deadfall, endangered species protection, forestation, cultural resource sites protection, and wetlands.
Encroachment	Growing cities and competing projects.
Shape	Irregular post outlines and noncontiguous parcels that prevent maneuver or canalize forces.
Access and availability	Airfields, ammunition storage sites, national parks, and national forests.
Other facilities	Highways, easements, historic sites, cemeteries, and Indian reservations.

b. Given all considerations, installations may be unable to meet MTP maneuver/training area requirements. Some land may have to be declared non-maneuver acreage and subtracted from the gross acreage available. Land declared unusable for training must be identified in the LURS with supporting rationale or justification. Planners should also deduct maneuver-training areas granted (lease, permit, license, or easement) to

other agencies from gross acreage figures. The LURS must clearly state why this land was subtracted from the gross acreage available.

3-7. Effect of land shortfalls

Determining how land shortfalls affect training at an installation is critical to deciding if additional maneuver/training areas are required. Commanders and training-land planners assess the influence of land deficiencies on training capabilities and on mission readiness. This assessment is conducted in Step 1 of the ATLAM procedure. It is included in the conclusions of the LURS as the basis for recommending alternate solutions.

3-8. Maneuver area deficiencies

Training is the essential element that assures unit combat readiness. Many unit mission essential tasks can be trained to standard only during live training. For example, tasks “Occupy a platoon battle position,” or “Create a crater obstacle with explosives,” are difficult to evaluate in virtual or constructive training. Only in the live training environment can leaders evaluate collective training to standard using training and evaluation outlines from the applicable MTP. A maneuver area that restricts doctrinal unit employment does not reflect the battlefield and fails to prepare the unit for combat. The impact of a maneuver/training area shortfall on unit training is the commander’s judgment guided by his experience and considerations identified in this circular. The degree to which land deficiencies constrain training and how those training constraints, in turn, affect training readiness are command judgments. Commanders must weigh the cost of satisfying maneuver/training area shortfalls against the assessed reduction in training readiness. Units must be able to execute the collective task under the conditions and to MTP standards. If available resources do not permit this level of training, the commander must acquire additional maneuver/training areas, conduct virtual or constructive training, or identify the training readiness impact.

3-9. Range and SDZ deficiencies. The effect of shortfalls in available land for live-fire ranges and SDZs can be determined by analyzing:

- a. Deficiencies in unit training readiness condition levels resulting from weapons qualification events not conducted because of range and impact area shortfalls.
- b. The availability of alternate ranges at home station or within a reasonable distance from home station.
- c. The availability of training devices such as weapon simulators, subcaliber devices, non-live-fire substitutions, and scaled ranges.
- d. The firing frequency needed to maintain weapon proficiency in accordance with STRAC.

3-10. Ranges and explosives safety requirements

a. Maneuver/training area recurring ammunition handling/configuration points must have an explosives safety site plan (See AR 385-63, *Policies and Procedures for Firing Ammunition for Training, Target Practice, and Combat*; DOD Standard 6055.9, *Ammunition and Explosives Safety Standards*; Title 10, Sec 173; and DA Pam 385-64, *U.S. Army Explosives Safety Program*). This plan must be approved by the DOD Explosives Safety Board. This includes loading docks and reconfiguration points on MultiPurpose Range Complexes (MPRC), MultiPurpose Training Ranges, (MPTR), demolition ranges, and selected artillery ranges (where there is a central ammunition operation).

b. The creation of new dudded impact areas requires a dual waiver from HQDA (ODCSOPS) and the Director of Army Safety.

3-11. Maneuver/training areas and the environment

a. Legal and Regulatory Compliance Requirements. Federal, state, local, and host-nation governments have established laws and regulations to protect human health and the natural and cultural resources from degradation. Heightened awareness by the public and federal government have led agencies to develop policies to support regulatory compliance and stewardship. Compliance with applicable environmental laws and regulations is as necessary as training safety considerations. The Army is making a concerted effort to integrate environmental considerations into all Army activities. At most locations, installation environmental support personnel are available to help leaders understand the various laws and regulations. These support personnel include the DPW, Environmental Office, Staff Judge Advocate, and Range Office. Army Regulations 200-1, *Environmental Protection and Enhancement*; 200-2, *Environmental Effects of Army Actions*; 200-3, *Natural Resources - Land, Forest, and Wildlife Management*; and 200-4, *Cultural Resources* are the primary references for Army environmental programs. Major laws and regulations with land use implications are described below.

(1) National Environmental Policy Act. The NEPA requires federal officials and Army leaders to analyze potential environmental impacts of proposed actions and alternatives before making decisions. Army installations should have, in place, programmatic NEPA documents that have analyzed potential training impacts. This is especially important if unique or large-scale activities are planned. Consult installation environmental office personnel regarding requirements for NEPA documentation.

(2) Resource Conservation and Recovery Act (RCRA). The RCRA sets the nation's framework for managing hazardous waste. RCRA regulations establish the standards for identifying, classifying, transporting, storing, treating, and disposing of hazardous waste. The RCRA also requires that those involved in managing hazardous waste be properly trained. The RCRA includes proper disposal of waste such as garbage, pyrotechnics, blank

ammunition, and kitchen gray water. The installation hazardous waste manager and unit hazardous materials personnel support and advise on RCRA compliance.

(3) Clean Water Act (CWA). The CWA affects surface, groundwater, and stormwater protection, wetlands and coastal waters protection, and erosion control. It also establishes requirements for reporting oil and hazardous substance spills into waterways. During training activities, spills and maneuver damage to wetlands or streams have potential implications under the CWA. The installation must have a spill plan, and units training on the installation must be familiar with the installation's spill plan. The installation staff should develop and publish policies regarding training in and around wetlands, streams, or other water bodies.

(4) National Historic Preservation Act (NHPA). The NHPA's purpose is to safeguard against the loss of historic properties (formerly historic and archeological sites). Many historic properties are located on Army facilities, ranging from prehistoric settlements and native American sacred sites to 19th century cantonments. Installations must ensure proper policies, procedures, and controls are in place to protect these areas during all activities, but especially training. The AR 200-4 requires each installation to develop an ICRMP. The ICRMP is a component of the installation master plan and is the installation commander's decision document for cultural resources management actions and specific compliance procedures including NHPA and other cultural resources statutes and regulations. The ICRMP integrates the entire installation's cultural resources program with ongoing mission activities. This allows the identification of potential conflicts between the installation's mission and cultural resources, and identification of compliance actions necessary to maintain the availability of mission essential properties and acreage. The installation cultural resources manager, in the environmental office, is the primary support staff for the installation.

(5) Endangered Species Act (ESA). The ESA prohibits actions that harm threatened or endangered species or their critical habitats. Army land uses, including training, testing, timber harvesting, recreation, and grazing are subject to ESA requirements for the protection of listed species and critical habitat. The key to successfully balancing mission requirements and the conservation of endangered species is long-term planning and effective management to prevent conflicts between these competing interests. Proponents of Army actions will coordinate with the installation's natural resources staff, early in the planning stage of projects and activities, to identify potential conflicts with the conservation of endangered species. The installation staff will integrate endangered species management and installation planning functions to avoid conflicts with ESA requirements. The INRMP and ITAM program should be closely coordinated and mutually supportive.

(6) The Sikes Act and the Sikes Act Improvement Act (SAIA). The SAIA and associated DOD directives require the Army to manage natural resources at its installations. They are to provide for sustained multipurpose

use and to manage public access necessary or appropriate for that use as long as that use is not inconsistent with the military mission. The Act requires the Army to develop and implement an INRMP. Natural resources planning and management must occur through a statutorily mandated process that establishes timelines, prescribes necessary elements, and requires open and coordinated preparation with the US Fish and Wildlife Service, state fish and wildlife agencies, and the public. The INRMP is the installation commander's adaptive plan for managing natural resources to support and be consistent with the military mission while protecting and enhancing these resources for multiple uses, sustainable yields, and biological integrity. The purpose of the INRMP is to ensure that natural resource conservation measures and Army activities on mission lands are integrated and are consistent with federal stewardship requirements. Also, the INRMP provides for ecological requirements of the military mission. The INRMP should include input from the installation natural resource staff and range and training managers to ensure training and range requirements are integrated and accounted for in the plan and in coordination with the installation environmental programs.

b. Environmental Considerations in Foreign Nations. Installations located in foreign countries will comply with the host nations' laws and regulations and ARs 200-1 and 200-2.

Appendix A

Unit Maneuver Area Requirements

“Both advantage and danger are inherent in maneuver.” Sun Tzu

A-1. Introduction

a. Army training strategy is based on platoon through battalion ARTEP training exercises at home stations, local and major training areas, and combat training centers. The ARTEP MTPs identify critical wartime missions and, in some cases, the maneuver areas needed to train the exercises. For the battalion task force, ARTEP 71-2-MTP identifies the following missions:

- (1) Movement to contact
- (2) Offensive operations
- (3) Defensive operations
- (4) Retrograde
- (5) Reconnaissance and security

b. Operations to accomplish reconnaissance and security missions at the mechanized infantry or armor battalion task force are an integral part of the other four missions. Separate maneuver area requirements will not be identified for battalion task force reconnaissance and security operations.

c. Figure A-1 shows recommended maneuver area boxes for movement-to-contact, offense, defense, and retrograde missions. As generic models, these maneuver boxes identify in geometric form the acreage and configuration of a maneuver area to support a task-force training event. For example, there are 248 square kilometers (km²) in the movement to contact box multiplied by 247.1 acres per km² equals 61,281 acres. The nature of terrain used for training may argue in favor of using more or less land. The information provided in Figure A-1 is a guide. The trainer must evaluate maneuver area requirements to support training at a specific location.

A-2. Computations of gross maneuver area requirements (km²-days)

a. The ARTEP MTPs and other doctrinal publications form a basis for computing consolidated maneuver area requirements for units, both Active and Reserve Components, assigned to or supported by an installation. Tables A-1, A-2, and A-3, show platoon-through-battalion data for heavy

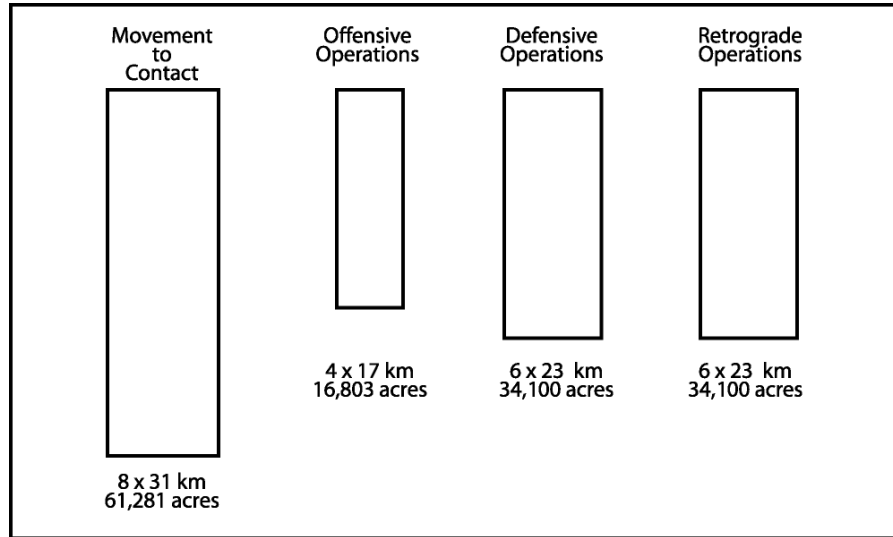


Figure A-1. Maneuver Area Requirements of the Mechanized Infantry/Armor Battalion Task Force

(mechanized infantry/armor) divisions, light divisions, and echelons above division units, respectively. Table A-4 will ultimately identify the same data for the IBCT of the Transformation Force. However, that information was not available at publication.

b. Maneuver area requirements for selected types of units from platoon through battalion, squadron, and task force are identified by MTP and doctrinal publications. Trainers and land-use managers must adjust unit density figures, to meet their local situations. See Appendix C for methodology for ARTEP mission collective training.

c. Use Tables A-1 through A-3 to determine gross maneuver area requirements for training facilities from small local areas to division-size or larger installations:

(1) Column 1 lists units, their ARTEP, and ARTEP missions.

(2) Column 2 lists the maneuver area requirements for the type unit by mission.

(3) Column 3 lists the recommended frequency for the mission during the training year to maintain the required level of performance in the task or event.

(4) Column 4 lists the recommended number of days per training iteration.

d. To determine the gross annual maneuver area requirement for an ARTEP mission, compute the product of the number of units (obtained from a unit troop list), the maneuver area requirement (column 2), the number of

repetitions (column 3), and the days required per repetition (column 4). For example, a heavy division may wish to compute the annual maneuver area requirement associated with the ARTEP mission defense for its ten battalion task forces (at that installation). From Table A-1, obtain these data:

- Maneuver area requirement 138 km²
- Number of iterations 4
- Days per iteration 1
- Compute the product:
 - 10 task forces x 138 km² per task force x 4 iterations x 1 day per iteration = 5,520 km²-days annually.

e. The gross annual training maneuver area requirement for a unit may be determined by computing the gross maneuver area requirement for each of the unit's MTP tasks and obtaining the sum. For example, compute the gross annual maneuver area requirement for each heavy-battalion-task-force MTP task for the division's ten task forces:

- Movement to contact 9,920 km²-days
- Offensive Operations 2,720 km²-days
- Defensive Operations 5,520 km²-days
- Retrograde 5,520 km²-days

f. The sum of these maneuver area requirements, 23,680 km²-days, is the gross annual maneuver area requirement for the division's battalion task forces.

A-3. Definition of terms. Training management planning to conduct unit live training requires consideration of the need for "contiguous" and "non-contiguous" maneuver areas, communications and road connectivity, and airspace management.

a. "Contiguous" means the unit commander has the appropriate size (km² or acres for the ARTEP MTP task) maneuver area available and control of that maneuver area to support collective live training. For example, the mechanized/armor battalion task force must have the proper size maneuver area to support ARTEP training for movement to contact (8 km x 31 km), offense (4 km x 17 km), defense (6 km x 23 km), and retrograde (6 km x 23 km) missions. They must control that maneuver area to ensure there are no training distractions or unsafe activities resulting from other units in the same area. See Figure A-2 as an example of the contiguous maneuver area necessary to support task force training.

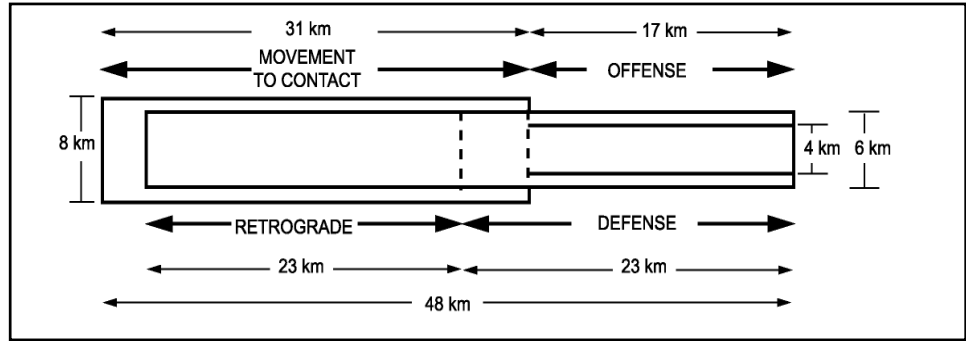


Figure A-2. Task force maneuver area requirements (flowing scenario)

b. “Non-contiguous and connectivity” means having maneuver area available in size (km² or acres) to exercise the unit’s tactical capabilities represented by the four shaded areas/footprints (see Figure A-3). In these four areas, the unit conducts live training to include tactical maneuver, command and control, transmission/re-transmission laager, refuel/rearm, and maintenance. The unit (aviation, transportation, or signal) requires the connectivity (airspace, roads, airways) to fly, drive, and communicate among the four sites. Unlike the task force in Figure A-2, the unit training in Figure A-3 does not need to control the entire maneuver area in the 50 km x 50 km box.

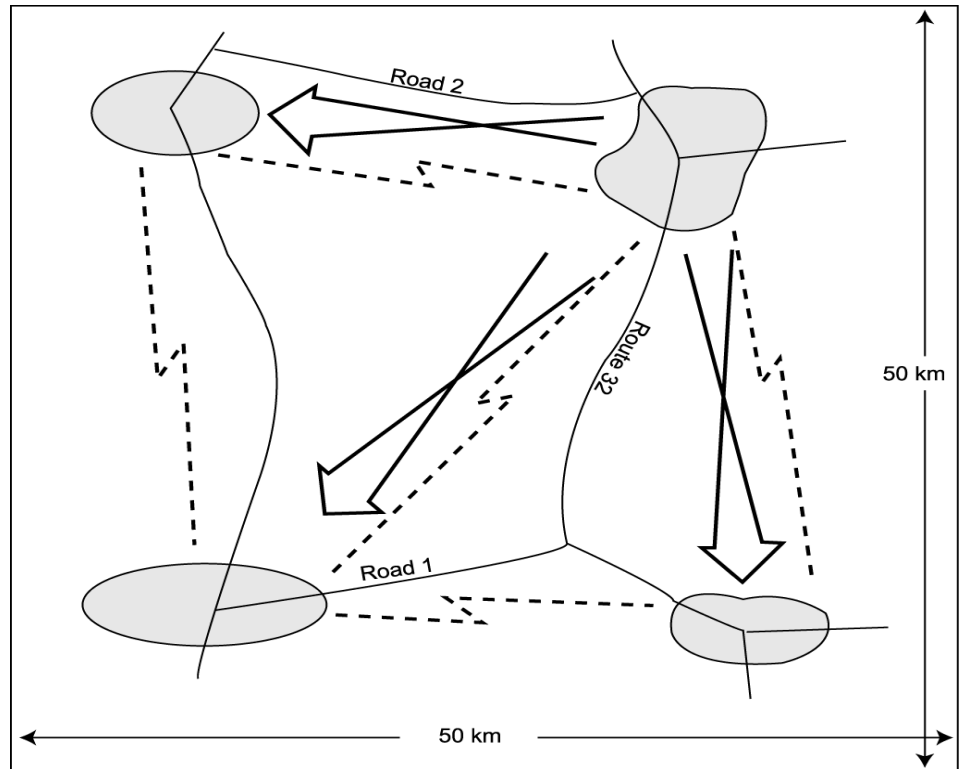


Figure A-3. Non-contiguous maneuver areas, footprints, and connectivity

c. Airspace management is a critical element in combined arms training and must be carefully considered when planning maneuver/training area requirements. Units are required to designate airspace for airborne intelligence gathering platforms, close air support, air defense and field artillery, and mortar firing as part of the training of the combined arms team. Army Regulations 95-2, and 385-63 provide information on designating, using, and managing special-use airspace. Federal Aviation Administration Handbook 7400.2 provides stipulations and requirements. Figures A-4 and A-5 show aviation unit collective training – the maneuver area and airspace required to train selected ARTEP tasks. These figures also identify contiguous maneuver areas required for training to include the 20 km x 25 km and 16 km x 13 km maneuver areas, Holding Area, FARP, Assembly Area, and Pick-up Zone. The figures also show the non-contiguous maneuver areas required to train aviation units to include the air routes to and from the contiguous maneuver areas.

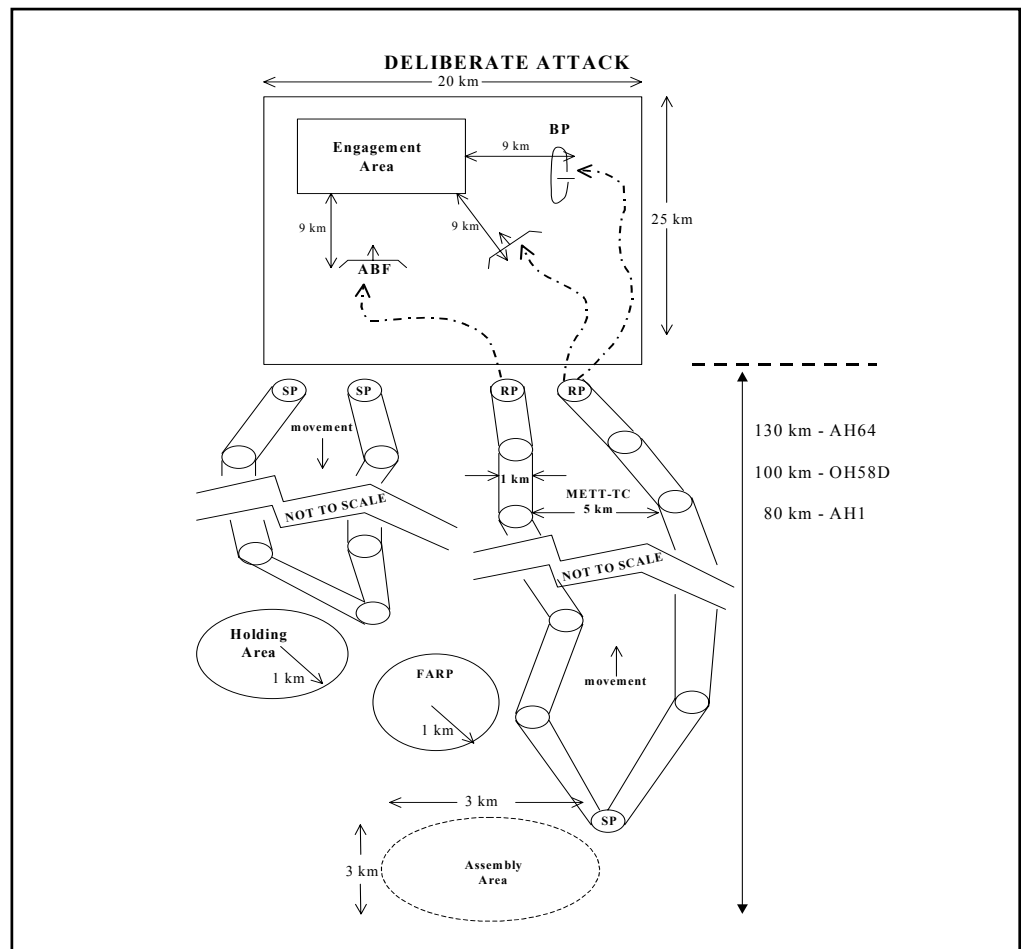


Figure A-4. Aviation unit contiguous/non-contiguous deliberate attack maneuver area requirements

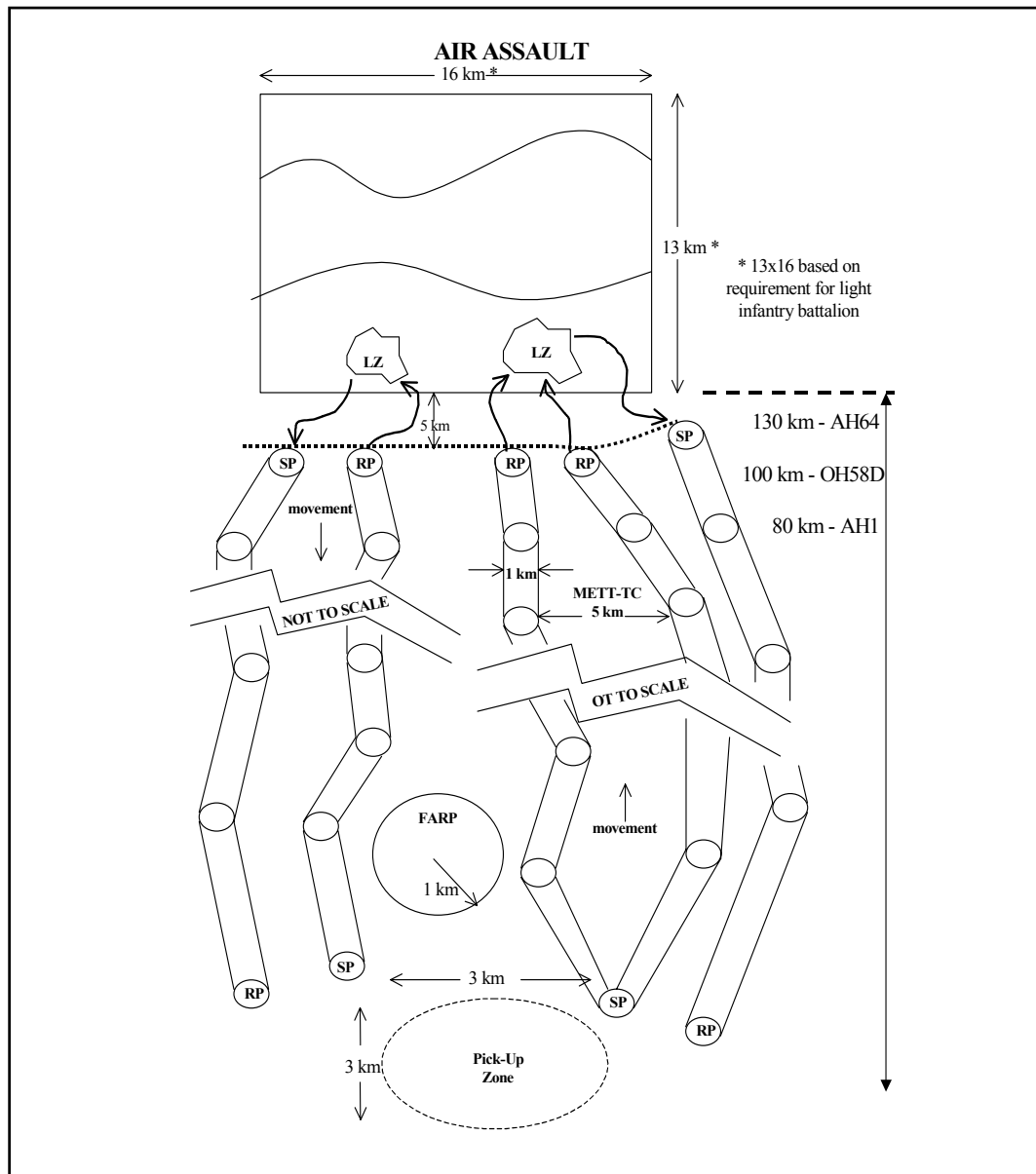


Figure A-5. Aviation unit contiguous/non-contiguous air assault maneuver area requirements

Table A-1. Mechanized Infantry and Armor Division Maneuver Area Requirements

Introduction. This table includes units in or supporting mechanized infantry and armor divisions. It includes unit ARTEPs, missions, and mission maneuver area requirements. The unit ARTEPs are listed in ascending order.

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Attack Helo Co (AH-64)			
(ARTEP 1-112-MTP)			
• Assembly area	1 x 1 = 1 km ²	4	6
• Screen	10 x 18 = 180 km ²	2	1
• Route recon	10 x 30 = 300 km ²	3	1
• Zone recon	10 x 30 = 300 km ²	4	1
• Area recon	10 x 10 = 100 km ²	4	1
• Deliberate attack ²	20 x 25 = 500 km ²	12	1
• Air assault security ³	16 x 18 = 288 km ²	2	1
Assault Helicopter Co			
(ARTEP 1-113-MTP)			
• Assembly area	1 x 1 = 1 km ²	5	6
• Air assault ³	16 x 18 = 288 km ²	10	1
• Air volcano	5 x 1 = 5 km ²	5	1
• FATHAWK	5 x 2 = 10 km ²	10	1
• Combat svc spt opns	14 x 31 = 434 km ²	2	1
Air Cavalry/Reconnaissance Squadron/Troop			
(ARTEP 1-114-MTP)			
• Assembly area	1 x 1 = 1 km ²	6	6
• Screen	10 x 18 = 180 km ²	3	1
• Route recon	10 x 30 = 300 km ²	6	1

² Deliberate attack iterations include attacks in the close and deep fight. They do not include iterations of the hasty attack. Maneuver area dimensions are for a battalion mission. Enroute distance will vary depending on METT-T. While not necessary to own the land under the air routes, certain factors must be considered in selecting them, to include: airspace; noise complaints; populated areas (Federal Aviation Regulations, bright lights, affect NVGs); hazards to flight (power lines, radio towers, and civilian airfields); and landing rights for FARPs, holding areas, emplacement of enroute threats, and downed aircraft recovery.

³ The maneuver area for air assault operations is based on the light infantry battalion in the offense. It does not include land requirements for pick-up zones. Considerations for air routes are the same as for footnote number 2.

Table A-1. Mechanized infantry and armor division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Zone recon	10 x 30 = 300 km ²	6	1
• Area recon	10 x 10 = 100 km ²	6	1
• Deliberate attack ²	20 x 25 = 500 km ²	16	1
NBC Recon Platoon			
(ARTEP 3-207-10-MTP)			
• NBC recon (Route)	1 x 10 = 10 km ²	4	1
• NBC recon (Zone)	5 x 10 = 50 km ²	4	1
• NBC recon (Area)	3 x 3 = 9 km ²	4	1
• NBC survey	2 x 10 = 20 km ²	4	1
• Conventional recon	5 x 5 = 25 km ²	4	1
Smoke/Decon Platoon			
(ARTEP 3-457-10-MTP)			
• Smoke opns-long duration	10 x 10 = 100 km ²	6	1
• Conceal river crossing	5 x 5 = 25 km ²	6	1
• Decontamination opns	3 x 3 = 9 km ²	6	1
• Conceal breach	5 x 5 = 25 km ²	6	1
Chemical Co, Hvy Div			
(ARTEP 3-457-30-MTP)			
• Base cluster opns	3 x 3 = 9 km ²	2	2
Bridge Platoon			
(ARTEP 5-145-12-MTP)			
• Fixed bridge operations	8 x 12 = 96 km ²	2	1
• Float bridge operations	8 x 12 = 96 km ²	2	1
Bridge Company			
(ARTEP 5-145-32-MTP)			
• Fixed bridge operations	8 x 12 = 96 km ²	2	1
• Float bridge operations	8 x 12 = 96 km ²	2	1
Engineer Battalion			
(ARTEP 5-335-66-MTP)			

² Deliberate attack iterations include attacks in the close and deep fight. They do not include iterations of the hasty attack. Maneuver area dimensions are for a battalion mission. Enroute distance will vary depending on METT-TC. While not necessary to own the land under the air routes, certain factors must be considered in selecting them, to include: airspace; noise complaints; populated areas (Federal Aviation Regulations, bright lights, affect NVGs); hazards to flight (power lines, radio towers, and civilian airfields); and landing rights for FARPs, holding areas, emplacement of enroute threats, and downed aircraft recovery.

Table A-1. Mechanized infantry and armor division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Mobility operations	12 x 16 = 192 km ²	2	1
• Countermobility operations	12 x 16 = 192 km ²	2	1
• Survivability operations	12 x 16 = 192 km ²	2	1
• General engineering	12 x 16 = 192 km ²	2	1
• Fight as Engineers	6 x 17 = 102 km ²	2	1
Engineer Platoon			
(ARTEP 5-337-10-MTP)			
(ARTEP 5-337-70-MTP(Digital))			
• Mobility operations	4 x 12 = 48 km ²	2	1
• Countermobility operations	4 x 12 = 48 km ²	2	1
• Survivability operations	4 x 12 = 48 km ²	2	1
• Sustainment engineering	4 x 12 = 48 km ²	2	1
Engineer Company			
(ARTEP 5-337-35-MTP)			
(ARTEP 5-335-65-MTP(Digital))			
• Mobility operations	8 x 12 = 96 km ²	2	1
• Countermobility operations	8 x 12 = 96 km ²	2	1
• Survivability opns	8 x 12 = 96 km ²	2	1
• General engineering	8 x 12 = 96 km ²	2	1
• Fight as engineers	6 x 14 = 84 km ²	2	1
FA Battery, 155mm SP [Cav How Brty Identical]⁴			
(ARTEP 6-037-30-MTP)			
• Deliver fires ⁵	5 x 31 = 155 km ²	TRC A=4/TRC C=2	2
• Move	3 x 5 = 15 km ²	TRC A=12/TRC C=6	1
• Survive ⁶			

⁴ Unit also has other ARTEP missions which can be performed in the maneuver land available for the ARTEP missions shown in the table.

⁵ When using munitions not approved for overhead firing, the maneuver area requirements shown in the “Deliver Fires” block apply. With munitions approved for overhead firing, the maneuver area shown in the “Move” block apply plus an impact area 6 x 8 = 48 km².

⁶ FA units have a “survive” mission, but the subordinate missions of “survive” vary from unit to unit. Units select those subordinate “survive” missions below that apply to their unit.

Tasks	Maneuver Area Reqmts	Annual Repetitions	Days/Repetition
Direct Fire	11 x 1 = 11 km ²	1	1
BFIST	5 x 1 = 5 km ²	1	1
.50 cal MG	4 x 1 = 4 km ²	1	1
M60 MG	4 x 1 = 4 km ²	1	1
AT-4/LAW	1 x 1 = 1 km ²	1	1
Individual Weapon	4 x 1 = 4 km ²	1	1

Table A-1. Mechanized infantry and armor division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
FA Platoon, 155mm SP⁴ (ARTEP 6-037-30-MTP)			
• Deliver fires ⁵	3 x 31 = 93 km ²	TRC A=2 TRC C=1	1
• Move	2 x 2 = 4 km ²	TRC A=12 TRC C=6	1
• Survive ⁶			
FA Bn, 155mm SP⁴ (ARTEP 6-115-MTP)			
• Deliver fires ⁵	15 x 31 = 465 km ²	TRC A=4 TRC C=2	3
• Move	3 x 15 = 45 km ²	TRC A=12 TRC C=6	1
• Survive ⁶			
HQB, 155mm SP⁴ (ARTEP 6-115-MTP)			
• Move	3 x 5 = 15 km ²	TRC A=12 TRC C=6	1
• Survive ⁶			
Service Battery, 155mm SP⁴ (ARTEP 6-115-MTP)			
• Move	3 x 5 = 15 km ²	TRC A=12 TRC C=6	1
• Survive ⁶			

⁴ Unit also has other ARTEP missions which can be performed in the maneuver land available for the ARTEP missions shown in the table.

⁵ When using munitions not approved for overhead firing, the maneuver area requirements shown in the “Deliver Fires” block apply. With munitions approved for overhead firing, the maneuver area shown in the “Move” block apply plus an impact area 6 x 8 = 48 km².

⁶ FA units have a “survive” mission, but the subordinate missions of “survive” vary from unit to unit. Units select those subordinate “survive” missions below that apply to their unit.

Tasks	Maneuver Area Reqmts	Annual Repetitions	Days/Repetition
Direct Fire	11 x 1 = 11 km ²	1	1
BFIST	5 x 1 = 5 km ²	1	1
.50 cal MG	4 x 1 = 4 km ²	1	1
M60 MG	4 x 1 = 4 km ²	1	1
AT-4/LAW	1 x 1 = 1 km ²	1	1
Individual Weapon	4 x 1 = 4 km ²	1	1

Table A-1. Mechanized infantry and armor division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
FA Bn, MLRS/TA⁴			
(ARTEP 6-395-MTP)			
• Deliver fires	20 x 18 = 360 km ²	TRC A=2/C=1	3
• Move	3 x 15 = 45 km ²	TRC A=12/C=6	1
• Survive ⁶			
FA Battery, MLRS⁴			
(ARTEP 6-397-MTP)			
• Deliver fires	10 x 18 = 180 km ²	TRC A=2/ C=1	2
• Move	3 x 5 = 15 km ²	TRC A=12/C=6	1
• Survive ⁶			
FA Platoon, MLRS⁴			
(ARTEP 6-397-MTP)			
• Deliver fires	4 x 18 = 72 km ²	TRC A=2/C=1	1
• Move	3 x 3 = 9 km ²	TRC A=12/C=6	1
• Survive ⁶			
Mech Inf Rifle Platoon/Squad			
(ARTEP 7-7J-MTP)			
• Recon and security ¹			
• Offense	4 x 6 = 24 km ²	4	2

¹Reconnaissance and security tasks are an integral part of the other ARTEP missions and do not require additional maneuver area.

⁴ Unit also has other ARTEP missions. Those other missions can be performed in the maneuver land available for the ARTEP missions shown in the table.

⁶ FA units have a “survive” mission, but the subordinate missions of “survive” vary from unit to unit. Units select those subordinate “survive” missions below that apply to their unit.

Tasks	Maneuver Area Reqmts	Annual Repetitions	Days/Repetition
Direct Fire	11 x 1 = 11 km ²	1	1
BFIST	5 x 1 = 5 km ²	1	1
.50 cal MG	4 x 1 = 4 km ²	1	1
M60 MG	4 x 1 = 4 km ²	1	1
AT-4/LAW	1 x 1 = 1 km ²	1	1
Individual Weapon	4 x 1 = 4 km ²	1	1

Table A-1. Mechanized infantry and armor division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Defense	3 x 6 = 18 km ²	4	2
• Retrograde	3 x 10 = 30 km ²	4	2
• Stability	3 x 6 = 18 km ²	4	2
• Support	3 x 6 = 18 km ²	4	2
Task Force Mortar Platoon (ARTEP 7-90-MTP)			
• Recon and security ¹			
• Offense	4 x 15 = 60 km ²	2	1
• Defense	4 x 7 = 28 km ²	2	1
• Retrograde	3 x 10 = 30 km ²	2	1
• Stability	3 x 6 = 18 km ²	2	1
• Support	3 x 6 = 18 km ²	2	1
Antiarmor Company/Platoon/Section (ARTEP 7-91-MTP)			
• Recon and security ¹			
• Offense	4 x 15 = 60 km ²	3	1
• Defense	4 x 7 = 28 km ²	3	1
• Retrograde	3 x 10 = 30 km ²	3	1
• Stability	3 x 10 = 30 km ²	3	1
• Support	3 x 10 = 30 km ²	3	1
Long-Range Surveillance Det (ARTEP 7-93-MTP)			
• Recon and security	10 x 15 = 150 km ²	4	1
• Offense	10 x 15 = 150 km ²	4	1
• Defense	10 x 15 = 150 km ²	4	1
• Retrograde	10 x 15 = 150 km ²	4	1
• Stability	10 x 15 = 150 km ²	3	1
• Support	8 x 12 = 96 km ²	4	1
Medical Co, MSB, Spt Cmd, Hvy Div (ARTEP 8-057-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1

¹ Reconnaissance and security tasks are an integral part of the other ARTEP missions and do not require additional maneuver area.

Table A-1. Mechanized infantry and armor division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Redeploy	4 x 4 = 16 km ²	2	1
Medical Co, FSB, Spt Cmd, Hvy Div			
(ARTEP 8-058-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Medical Co, Air Ambulance			
(ARTEP 8-279-30-MTP)			
• Deploy	30 x 20 = 600 km ²	2	1
• Relocate	30 x 20 = 600 km ²	2	1
• Establish	30 x 20 = 600 km ²	2	1
• Perform opnl mission	30 x 20 = 600 km ²	2	2
• Defend	30 x 20 = 600 km ²	2	1
• Redeploy	30 x 20 = 600 km ²	2	1
Medical Co, Spt Bn, Hvy Sep Bde / Sep Inf Bde, & Medical Troop, Spt Squadron, Abn/ACR			
(ARTEP 8-437-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	1
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Medical Co, Ground Ambulance			
(ARTEP 8-449(MRI)-30-MTP)			
• Deploy	4 x 20 = 80 km ²	2	1
• Relocate	4 x 20 = 80 km ²	2	1
• Establish	4 x 20 = 80 km ²	2	1
• Perform opnl mission	4 x 20 = 80 km ²	2	2
• Defend	4 x 20 = 80 km ²	2	1
• Redeploy	4 x 20 = 80 km ²	2	1
Medical Co, Ground Ambulance			
(ARTEP 8-449-30-MTP)			
• Deploy	4 x 20 = 80 km ²	2	1

Table A-1. Mechanized infantry and armor division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Relocate	4 x 20 = 80 km ²	2	1
• Establish	4 x 20 = 80 km ²	2	1
• Perform opnl mission	4 x 20 = 80 km ²	2	2
• Defend	4 x 20 = 80 km ²	2	1
• Redeploy	4 x 20 = 80 km ²	2	1
Forward Surgical Team (ARTEP 8-518-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Combat Spt Hospital (ARTEP 8-705-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Signal Battalion (ARTEP 11-065-30-MTP) (ARTEP 11-067-30-MTP)			
• Signal Tactical Operations	30 x 30 = 900 km ²	4	5
Task Force Scout Platoon (ARTEP 17-57-10-MTP)			
• Security operations	4 x 30 = 120 km ²	4	1
• Recon operations	4 x 30 = 120 km ²	4	1
Scout Platoon (ARTEP 17-57-10-MTP)			
• Security operations	5 x 27 = 135 km ²	2	1
• Recon operations	5 x 27 = 135 km ²	2	1

Table A-1. Mechanized infantry and armor division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Air Assault Security ³	16 x 18 = 288 km ²	3	1
Maintenance Platoon (ARTEP 17-236-10-MTP)			
• Provide maintenance support	1.5 x 3 = 4.5 km ²	3	1
• Conduct recovery operations	1.5 x 3 = 4.5 km ²	3	1
Support Platoon (ARTEP 17-236-11-MTP)			
• Provide logistical support	1 x 20 = 20 km ²	3	1
Medical Platoon (ARTEP 17-236-12-MTP)			
• Provide health services support	1 x 8 = 8 km ²	3	1
Tank Platoon (ARTEP 17-237-10-MTP)			
• Move	2 x 10 = 20 km ²	3	1
• Attack	1 x 3 = 3 km ²	3	1
• Defend	0.5 x 1 = 0.5 km ²	3	1
Armored Cavalry Squadron (ARTEP 17-385-MTP)			
• Recon - route	60 x 90 = 5400 km ²	TBD	TBD
• Recon - area	60 x 90 = 5400 km ²	TBD	TBD
• Recon - zone	60 x 90 = 5400 km ²	TBD	TBD
• Recon in force	60 x 90 = 5400 km ²	TBD	TBD
• Security - screen	60 x 90 = 5400 km ²	TBD	TBD
• Security - guard	60 x 90 = 5400 km ²	TBD	TBD
• Security - cover	60 x 90 = 5400 km ²	TBD	TBD
• Security - area	60 x 90 = 5400 km ²	TBD	TBD
• Security - route	60 x 90 = 5400 km ²	TBD	TBD
• Security - convoy	60 x 90 = 5400 km ²	TBD	TBD
• Economy - attack	60 x 90 = 5400 km ²	TBD	TBD
• Economy - defend	60 x 90 = 5400 km ²	TBD	TBD
• Economy - mvmt to contact	60 x 90 = 5400 km ²	TBD	TBD
• Economy - retrograde	60 x 90 = 5400 km ²	TBD	TBD
Armored Cav Troop			

³ The maneuver area for air assault operations is based on the light infantry battalion in the offense. It does not include land requirements for pick-up zones. Considerations for air routes are the same as for footnote number 2.

Table A-1. Mechanized infantry and armor division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
(ARTEP 17-487-30-MTP)			
• Recon	12 x 30 = 360 km ²	3	1
• Security	12 x 30 = 360 km ²	3	1
• Defense	4 x 15 = 60 km ²	3	1
• Offense	2 x 13 = 26 km ²	3	1
Combat Support MP Plt			
(ARTEP 19-313-10-MTP)			
• Area security	12 x 12 = 144 km ²	2	1
• Maneuver and mobility spt	12 x 12 = 144 km ²	2	1
• Internment/re-settlement	12 x 12 = 144 km ²	2	1
• Law and order	12 x 12 = 144 km ²	2	1
• Police intelligence	12 x 12 = 144 km ²	2	1
Combat Support MP Co			
(ARTEP 19-313-30-MTP)			
• Area security	12 x 12 = 144 km ²	2	1
• Maneuver and mobility spt	12 x 12 = 144 km ²	2	1
• Internment/re-settlement	12 x 12 = 144 km ²	2	1
• Law and order	12 x 12 = 144 km ²	2	1
• Police intelligence	12 x 12 = 144 km ²	2	1
Long-Rge Surv Det			
(ARTEP 34-145-MTP)			
• Surveillance ops	1 x 6 = 6 km ²	4	1
DS MI Co (Digitized Div)			
(ARTEP 34-387-30-MTP)			
• Ground sensor spt	1 x 1 = 1 km ²	4	1
• Ground surv spt	1 x 10 = 10 km ²	4	1
• UAV launch and recovery support ⁷	1 x 1 = 1 km ²	4	2
• UAV recon ⁷	125 km radius airspace	4	2
• Provide Intel Spt	3 x 10 = 30 km ²	4	3
GS MI Co (Digitized Div)			
(ARTEP 34-388-30-MTP)			
• UAV launch and recovery support ⁷	1 x 1 = 1 km ²	4	2
• UAV recon ⁷	125 km radius airspace	4	2

⁷ For takeoff and landing practice, the UAV airspace requirement is 300-500 feet. For missions, the airspace requirement is 3000-5000 feet. Line of sight (electronic signals) to the UAV is required at all times

Table A-1. Mechanized infantry and armor division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• CI/HUMINT opns	2 x 2 = 4 km ²	4	1
• Provide intel spt	3 x 10 = 30 km ²	4	3
DS MI Co (Hvy)			
(ARTEP 34-397-30-MTP)			
• Ground sensor spt	1 x 1 = 1 km ²	4	1
• Ground surv	1 x 10 = 10 km ²	4	1
• Provide intel spt	3 x 10 = 30 km ²	4	3
GS MI Co (Hvy)			
(ARTEP 34-398-30-MTP)			
• CI/HUMINT opns	2 x 2 = 4 km ²	4	1
• Provide intel spt	3 x 10 = 30 km ²	4	3
STINGER Plt/STINGER Plt (Light and Special)			
(ARTEP 44-117-11-MTP)			
(ARTEP 44-117-12-MTP)			
• AD for static asset	5 x 5 = 25 km ²	4	2
• AD for mobile asset	5 x 5 = 25 km ²	4	2
• AD for movement to contact	5 x 5 = 25 km ²	4	2
• AD for breaching operations	5 x 5 = 25 km ²	4	2
Avenger Platoon			
(ARTEP 44-117-22-MTP)			
(ARTEP 44-117-21-MTP)			
• AD of static asset	5 x 5 = 25 km ²	4	2
• AD of mobile asset	5 x 5 = 25 km ²	4	2
• AD of task force	5 x 5 = 25 km ²	4	2
ADA Bn Hvy Div/ADA Bn Hvy Div (Digitized)			
(ARTEP 44-175-MTP)			
(ARTEP 44-175F-MTP)			
• Conduct AD opns (Defense)	10 x 10 = 100 km ²	2	3
• Conduct AD opns (Offense)	10 x 10 = 100 km ²	2	3
• Provide cmd/control	10 x 10 = 100 km ²	2	3
Sentinel Sensor Plt/ADA Sensor Plt C4I (Light)			
(ARTEP 44-176-15-MTP)			
(ARTEP 44-116-16-MTP)			
• EW in offensive opns	5 x 10 = 50 km ²	4	1
• EW in defensive opns	5 x 5 = 25 km ²	4	1
• EW in movement to contact	8 x 31 = 24 km ²	4	1

Table A-1. Mechanized infantry and armor division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Linebacker Plt (Hvy Div) and ADA Plt BSFV			
(ARTEP 44-177-15-MTP) (ARTEP 44-177-14-MTP)			
• AD for breaching opn	5 x 5 =25 km ²	4	2
• AD for mvmt to contact	5 x 5 =25 km ²	4	2
• AD for task force	5 x 5 =25 km ²	4	2
ADA Btry Light, Abn, Air Asslt, and Hvy Divisions and Corps/ADA Btry Bradley STINGER Fighting Veh/ADA Btry Gun or Stinger/Avenger Btry			
(ARTEP 44-177-35-MTP) (ARTEP 44-117-31-MTP) (ARTEP 44-177-30-MTP) (ARTEP 44-117-30-MTP)			
• AD for Div assets	6 x 20 = 120 km ²	2	3
ADA Btry, ACR-Mech Inf Bde			
(ARTEP 44-413-34-MTP)			
• AD of static asset	10 x 10 = 100 km ²	4	3
• AD of mobile asset	3 x 12 = 36 km ²	4	3
Transportation Motor Trnsp Co, MSB, Hvy Div			
(ARTEP 55-188-30-MTP)			
• Deploy/conduct maneuver	1.5 x 1.5 = 2.25 km ²	2	1
• Exercise cmd/control	1.5 x 1.5 = 2.25 km ²	2	1
• Perform CSS	1.5 x 1.5 = 2.25 km ²	2	2
• Protect the force	1.5 x 1.5 = 2.25 km ²	2	1
TMT Co, Div Spt Bn, Digitized Div			
(ARTEP 55-288-30-MTP)			
• Deploy/conduct maneuver	1.5 x 1.5 = 2.25 km ²	2	1
• Exercise cmd/control	1.5 x 1.5 = 2.25 km ²	2	1
• Perform CSS	1.5 x 1.5 = 2.25 km ²	2	2
• Protect the force	1.5 x 1.5 = 2.25 km ²	2	1

Table A-1. Mechanized infantry and armor division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Forward Support Bn			
(ARTEP 63-005-MTP)			
• Tactical operations	6 x 20 = 120 km ²	4	1
Main Support Bn			
(ARTEP 63-125-MTP)			
• Tactical operations	6 x 20 = 120 km ²	4	1
Mech Inf Company			
(ARTEP 71-1-MTP)			
• Movement to contact	6 x 14 = 84 km ²	3	1
• Attack	5 x 10 = 50 km ²	3	1
• Defend	3 x 8 = 24 km ²	3	2
• Retrograde	6 x 17 = 102 km ²	3	2
• Raid	3 x 8 = 24 km ²	3	1
• Ambush	5 x 10 = 50 km ²	3	1
• Recon and security ¹			
Tank Company			
(ARTEP 71-1-MTP)			
• Movement to contact	2.5 x 12 = 30 km ²	3	1
• Attack	2.5 x 7 = 17.5 km ²	3	1
• Defend	1.5 x 2 = 3 km ²	3	1
• Retrograde	2.5 x 9 = 22.5 km ²	3	1
• Security	3 x 8 = 24 km ²	3	1
Mech Inf/Armor Task force			
(ARTEP 71-2-MTP)			
• Movement to contact	8 x 31 = 248 km ²	4	1
• Offense	4 x 17 = 68 km ²	4	1
• Defense	6 x 23 = 138 km ²	4	1
• Retrograde	6 x 23 = 138 km ²	4	1
• Recon and security ¹			

¹ Reconnaissance and security tasks are an integral part of the other ARTEP missions and do not require additional maneuver area.

Table A- 2. Light division maneuver area requirements

Introduction. This table includes units in or supporting a light infantry division. It includes unit ARTEPs, missions, and mission maneuver area requirements. The unit ARTEPs are listed in ascending order.

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Attack Helicopter Co (Kiowa Warrior)			
(ARTEP 1-112-MTP)			
• Assembly area	1 x 1 = 1 km ²	4	6
• Screen	10 x 18 = 180 km ²	2	1
• Route recon	10 x 30 = 300 km ²	3	1
• Zone recon	10 x 30 = 300 km ²	4	1
• Area recon	10 x 10 = 100 km ²	4	1
• Deliberate attack ²	20 x 25 = 500 km ²	12	1
• Air assault security ³	16 x 18 = 288 km ²	2	1
Assault Helicopter Co			
(ARTEP 1-113-MTP)			
• Assembly area	1 x 1 = 1 km ²	5	6
• Air assault security	16 x 18 = 288 km ²	10	1
• Air Volcano	5 x 1 = 5 km ²	5	1
• FATHAWK	5 x 2 = 10 km ²	10	1
• Combat svc spt opns	14 x 31 = 434 km ²	2	1
Air Cavalry/Recon Squadron/Troop			
(ARTEP 1-114-MTP)			
• Assembly area	1 x 1 = 1 km ²	6	6
• Screen	10 x 18 = 180 km ²	3	1
• Route recon	10 x 30 = 300 km ²	6	1

² Deliberate attack iterations include attacks in the close and deep fight. They do not include iterations of the hasty attack. Maneuver dimensions are for a battalion mission. Enroute distance will vary depending on METT-T. While not necessary to own the land under the air routes, certain factors must be considered in selecting them, to include: airspace; noise complaints; populated areas (Federal Aviation Regulations, bright lights, affect NVGs); hazards to flight (power lines, radio towers, and civilian airfields); and landing rights for FARPs, holding areas, emplacement of enroute threats, and downed aircraft recovery.

³ The maneuver area for air assault operations is based on a light infantry battalion in the offense. It does not include land requirements for pick-up zones. Considerations for routes are the same as note number 2.

Table A-2. Light division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Zone recon	10 x 30 = 300 km ²	6	1
• Area recon	10 x 10 = 100 km ²	6	1
• Deliberate attack ²	20 x 25 = 500 km ²	16	1
• Air assault security ³	16 x 18 = 288 km ²	3	1
Engineer Platoon			
(ARTEP 5-025-11-MTP) (ARTEP 5-157-10-MTP) (ARTEP 5-217-10-MTP)			
• Mobility operations	2 x 10 = 20 km ²	2	1
• Countermobility operations	2 x 10 = 20 km ²	2	1
• Countermobility operations	2 x 10 = 20 km ²	2	1
• Survivability operations	2 x 10 = 20 km ²	2	1
• Sustainment engineering	2 x 10 = 20 km ²	2	1
• Fight as infantry	3 x 10 = 30 km ²	2	1
Engineer Co, Light/Abn/Air Assault			
(ARTEP 5-025-35-MTP) (ARTEP 5-157-35-MTP) (ARTEP 5-217-35-MTP)			
• Mobility operations	3.5 x 10 = 35 km ²	2	1
• Countermobility operations	3.5 x 10 = 35 km ²	2	1
• Survivability operations	3.5 x 10 = 35 km ²	2	1
• Sustainment engineering	3.5 x 10 = 35 km ²	2	1
• Fight as infantry	3.5 x 10 = 35 km ²	2	1

² Deliberate attack iterations include attacks in the close and deep fight. They do not include iterations of the hasty attack. Maneuver dimensions are for a battalion mission. Enroute distance will vary depending on METT-T. While not necessary to own the land under the air routes, certain factors must be considered in selecting them, to include: airspace; noise complaints; populated areas (Federal Aviation Regulations, bright lights, affect NVGs); hazards to flight (power lines, radio towers, and civilian airfields); and landing rights for FARPs, holding areas, emplacement of enroute threats, and downed aircraft recovery.

³ The maneuver area for air assault operations is based on a light infantry battalion in the offense. It does not include land requirements for pick-up zones. Considerations for routes are the same as note number 2.

Table A-2. Light division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Engineer Bn, Light/Abn/Air Assault			
(ARTEP 5-025-66-MTP) (ARTEP 5-155-66-MTP) (ARTEP 5-215-66-MTP)			
• Mobility operations	7 x 10 = 70 km ²	2	1
• Countermobility operations	7 x 10 = 70 km ²	2	1
• Survivability operations	7 x 10 = 70 km ²	2	1
• Sustainment engineering	7 x 10 = 70 km ²	2	1
• Fight as infantry	7 x 10 = 70 km ²	2	1
FA Battery, 155mm Towed, Sep LID⁴			
(ARTEP 6-037-30-MTP)			
• Deliver fires ⁵	4 x 31 = 124 km ²	TRC A=6 TRC C=3	1
• Move	3 x 5 = 15 km ²	TRC A=12 TRC C=6	1
• Survive ⁶			
FA Platoon, 155mm Towed⁴			
(ARTEP 6-037-30-MTP)			
• Deliver fires ⁵	3 x 31 = 93 km ²	TRC A=2 TRC C=1	1
• Move	2 x 2 = 4 km ²	TRC A=12 TRC C=6	1

⁴ Unit also has other ARTEP missions. Those other missions can be performed in the maneuver land available for the ARTEP missions shown in the table.

⁵ When using munitions not approved for overhead firing, the maneuver area requirements shown in the “Deliver Fires” block apply. With munitions approved for overhead firing, the maneuver area shown in the “Move” block apply plus an impact area 6 x 8 = 48 km².

⁶ FA units have a “survive” mission, but the subordinate missions of “survive” vary from unit to unit. Units select those subordinate “survive” missions below that apply to their unit.

Tasks	Maneuver Area Reqmts	Annual Repetitions	Days/Repetition
Direct Fire	11 x 1 = 11 km ²	1	1
BFIST	5 x 1 = 5 km ²	1	1
.50 cal MG	4 x 1 = 4 km ²	1	1
M60 MG	4 x 1 = 4 km ²	1	1
AT-4/LAW	1 x 1 = 1 km ²	1	1
Individual Weapon	4 x 1 = 4 km ²	1	1

Table A-2. Light division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Survive ⁶			
FA Battery, 105mm Towed⁴ (ARTEP 6-037-30-MTP)			
• Deliver fires ⁵	4 x 20 = 80 km ²	TRC A=7 TRC C=3	2
• Move	3 x 5 = 15 km ²	TRC A=12 TRC C=6	1
• Survive ⁶			
82d Abn Div Arty, Battery, 105mm (ARTEP 6-037-30-MTP)			
• Battery CALFEX	4 x 20 = 80 km ²	9	1
82d Abn Div Arty, 105mm (ARTEP 6-102-MTP)			
• Live-fire exercise for div ready bde (DRB)	30 x 22 = 660 km ²	2	2
HHB, 105mm Towed⁴ (ARTEP 6-115-MTP)			
• Move	3 x 5 = 15 km ²	TRC A=12 TRC C=6	1
• Survive ⁶			
Service Battery, 105mm Towed⁴ (ARTEP 6-115-MTP)			

⁴ Unit also has other ARTEP missions. Those other missions can be performed in the maneuver land available for the ARTEP missions shown in the table.

⁵ When using munitions not approved for overhead firing, the maneuver area requirements shown in the “Deliver Fires” block apply. With munitions approved for overhead firing, the maneuver area shown in the “Move” block apply plus an impact area 6 x 8 = 48 km².

⁶ FA units have a “survive” mission, but the subordinate missions of “survive” vary from unit to unit. Units select those subordinate “survive” missions below that apply to their unit.

Tasks	Maneuver Area Reqmts	Annual Repetitions	Days/Repetition
Direct Fire	11 x 1 = 11 km ²	1	1
BFIST	5 x 1 = 5 km ²	1	1
.50 cal MG	4 x 1 = 4 km ²	1	1
M60 MG	4 x 1 = 4 km ²	1	1
AT-4/LAW	1 x 1 = 1 km ²	1	1
Individual Weapon	4 x 1 = 4 km ²	1	1

Table A-2. Light division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Move	3 x 5 = 15 km ²	TRC A=12 TRC C=6	1
• Survive ⁶			
82d Abn Div Arty, Battalion, 105mm (ARTEP 6-115-MTP)			
• Fire coordination exercise for DRB	15 x 20 = 300 km ²	6	2
FA Battalion, 105mm Towed⁴ (ARTEP 6-115-20-MTP)			
• Deliver fires ⁵	15 x 20 = 300 km ²	TRC A=4 TRC C=2	3
• Move	3 x 15 = 45 km ²	TRC A=12 TRC C=6	1
• Survive ⁶			
Rifle Platoon (ARTEP 7-8-MTP)			
• Recon and security ¹			

¹ Reconnaissance and security tasks are an integral part of the other ARTEP missions and do not require additional maneuver area

⁴ Unit also has other ARTEP missions. Those other missions can be performed in the maneuver land available for the ARTEP missions shown in the table.

⁵ When using munitions not approved for overhead firing, the maneuver area requirements shown in the “Deliver Fires” block apply. With munitions approved for overhead firing, the maneuver area shown in the “Move” block apply plus an impact area 6 x 8 = 48 km².

⁶ FA units have a “survive” mission, but the subordinate missions of “survive” vary from unit to unit. Units select those subordinate “survive” missions below that apply to their unit.

Tasks	Maneuver Area Reqmts	Annual Repetitions	Days/Repetition
Direct Fire	11 x 1 = 11 km ²	1	1
BFIST	5 x 1 = 5 km ²	1	1
.50 cal MG	4 x 1 = 4 km ²	1	1
M60 MG	4 x 1 = 4 km ²	1	1
AT-4/LAW	1 x 1 = 1 km ²	1	1
Individual Weapon	4 x 1 = 4 km ²	1	1

Table A-2. Light division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Offense	3 x 6 = 18 km ²	4	2
• Defense	3 x 4 = 12 km ²	4	2
• Retrograde	3 x 4 = 12 km ²	4	1
• Stability	3 x 4 = 12 km ²	4	1
• Support	3 x 4 = 12 km ²	4	1
Rifle Company			
(ARTEP 7-10-MTP)			
• Recon and Security ¹			
• Offense	6 x 8 = 48 km ²	4	2
• Defense	4 x 4 = 16 km ²	4	2
• Retrograde	6 x 10 = 60 km ²	4	2
• Stability	4 x 4 = 16 km ²	4	2
• Support	4 x 4 = 16 km ²	4	2
Light Infantry Bn			
(ARTEP 7-20-MTP)			
• Recon and security ¹			
• Offense	13 x 16 = 208 km ²	4	1
• Defense	8 x 8 = 64 km ²	4	1
• Retrograde	14 x 20 = 280 km ²	4	1
• Stability	8 x 8 = 64 km ²	4	1
• Support	8 x 8 = 64 km ²	4	1
Mortar Platoon			
(ARTEP 7-90-MTP)			
• Recon and security ¹			
• Offense	4 x 7 = 28 km ²	2	1
• Defense	4 x 7 = 28 km ²	2	1
• Retrograde	4 x 7 = 28 km ²	2	1
• Stability	4 x 7 = 28 km ²	2	1
• Support	4 x 7 = 28 km ²	2	1
Antiarmor Platoon			
(ARTEP 7-91-MTP)			
• Recon and security ¹			
• Offense	4 x 15 = 60 km ²	3	1
• Defense	4 x 15 = 60 km ²	3	1
• Retrograde	4 x 15 = 60 km ²	3	1
• Stability	4 x 15 = 60 km ²	3	1
• Support	4 x 15 = 60 km ²	3	1

¹ Reconnaissance and security tasks are an integral part of the other ARTEP missions and do not require additional maneuver area.

Table A-2. Light division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Scout Platoon			
(ARTEP 7-92-MTP)			
• Recon and security	2 x 10 = 20 km ²	4	1
• Offense	2 x 10 = 20 km ²	4	1
• Defense	2 x 10 = 20 km ²	4	1
• Retrograde	2 x 10 = 20 km ²	4	1
• Stability	2 x 10 = 20 km ²	4	1
• Support	2 x 10 = 20 km ²	4	1
Long-Range Surveillance Det			
(ARTEP 7-93-MTP)			
• Recon and security	10 x 15 = 150 km ²	4	1
• Offense	10 x 15 = 150 km ²	4	1
• Defense	10 x 15 = 150 km ²	4	1
• Retrograde	10 x 15 = 150 km ²	4	1
• Stability	10 x 15 = 150 km ²	4	1
• Support	8 x 12 = 96 km ²	4	1
Medical Co, Air Ambulance			
(ARTEP 8-279-30-MTP)			
• Deploy	30 x 20 = 600 km ²	2	1
• Relocate	30 x 20 = 600 km ²	2	1
• Establish	30 x 20 = 600 km ²	2	1
• Perform opnl mission	30 x 20 = 600 km ²	2	2
• Defend	30 x 20 = 600 km ²	2	1
• Redeploy	30 x 20 = 600 km ²	2	1
Medical Co, Spt Bn, Hvy Sep Bde / Sep Inf Bde, & Medical Troop, Spt Squadron, Abn/ACR			
(ARTEP 8-437-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Medical Co, Ground Amb			
(ARTEP 8-449(MRI)-30-MTP)			
• Deploy	4 x 20 = 80 km ²	2	1
• Relocate	4 x 20 = 80 km ²	2	1
• Establish	4 x 20 = 80 km ²	2	1
• Perform opnl mission	4 x 20 = 80 km ²	2	2

Table A-2. Light division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Defend	4 x 20 = 80 km ²	2	1
• Redeploy	4 x 20 = 80 km ²	2	1
Medical Co, Ground Amb (ARTEP 8-449-30-MTP)			
• Deploy	4 x 20 = 80 km ²	2	1
• Relocate	4 x 20 = 80 km ²	2	1
• Establish	4 x 20 = 80 km ²	2	1
• Perform opnl mission	4 x 20 = 80 km ²	2	2
• Defend	4 x 20 = 80 km ²	2	1
• Redeploy	4 x 20 = 80 km ²	2	1
Forward Surgical Team (ARTEP 8-518-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Combat Support Hospital (ARTEP 8-705-MTP)			
• Deploy	8 x 12 = 96 km ²	2	1
• Plan	8 x 12 = 96 km ²	2	1
• Relocate	8 x 12 = 96 km ²	2	1
• Establish	8 x 12 = 96 km ²	2	1
• Perform opnl mission	8 x 12 = 96 km ²	2	2
• Defend	8 x 12 = 96 km ²	2	1
• Redeploy	8 x 12 = 96 km ²	2	1
Signal Battalion (ARTEP 11-065-30-MTP) (ARTEP 11-067-30-MTP)			
• Signal/tactical opns	30 x 30 = 900 km ²	4	5
Combat Support MP Plt (ARTEP 19-313-10-MTP)			
• Area security	12 x 12 = 144 km ²	2	1
• Maneuver and mobility support	12 x 12 = 144 km ²	2	1
• Internment/re-settlement	12 x 12 = 144 km ²	2	1
• Law and order	12 x 12 = 144 km ²	2	1
• Police intelligence	12 x 12 = 144 km ²	2	1
Combat Support MP Co (ARTEP 19-313-30-MTP)			
• Area Security	30 x 50 = 1500 km ²	2	1

Table A-2. Light division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Maneuver and mobility support	30 x 50 = 1500 km ²	2	1
• Internment/re-settlement	30 x 50 = 1500 km ²	2	1
• Law and order	30 x 50 = 1500 km ²	2	1
• Police intelligence	30 x 50 = 1500 km ²	2	1
MI Bn (JCF)			
(ARTEP 34-335-MTP)			
• Ground sensor spt	1 x 1 = 1 km ²	4	1
• Ground surv spt	1 x 10 = 10 km ²	4	1
• CI/HUMINT opns	2 x 2 = 4 km ²	4	1
• Provide intel spt	3 x 10 = 30 km ²	4	3
DS MI Co (Light Div)			
(ARTEP 34-357-30-MTP)			
• Ground sensor spt	1 x 1 = 1 km ²	4	1
• Ground surv spt	1 x 10 = 10 km ²	4	1
• CI/HUMINT opns	2 x 2 = 4 km ²	4	1
• Provide Intel Spt	3 x 10 = 30 km ²	4	3
GS MI Co (Light Div)			
(ARTEP 34-358-30-MTP)			
• Ground sensor spt	1 x 1 = 1 km ²	4	1
• Ground surv spt	1 x 10 = 10 km ²	4	1
• CI/HUMINT opns	2 x 2 = 4 km ²	4	1
• Provide intel spt	3 x 10 = 30 km ²	4	3
ADA Bn Light, Abn/Air Asslt Divisions and ADA Bn (Light and Special)			
(ARTEP 44-115-MTP)			
(ARTEP 44-135-MTP)			
• Conduct AD opns (Defense)	10 x 10 = 100 km ²	2	3
• Conduct AD opns (Offense)	10 x 10 = 100 km ²	2	3
• Provide command and control	10 x 10 = 100 km ²	2	3
STINGER Plt/STINGER Plt (Light and Special)			
(ARTEP 44-117-11-MTP)			
(ARTEP 44-117-12-MTP)			
• AD of static asset	5 x 5 = 25 km ²	4	2

Table A-2. Light division maneuver area requirements (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• AD of mobile asset	5 x 5 = 25 km ²	4	2
• AD of movement to contact	5 x 5 = 25 km ²	4	2
• AD for breaching operations	5 x 5 = 25 km ²	4	2
Avenger Platoon			
(ARTEP 44-117-22-MTP) (ARTEP 44-117-21-MTP)			
• AD of static asset	5 x 5 = 25 km ²	4	2
• AD of task force	5 x 5 = 25 km ²	4	2
• AD of mobile asset	5 x 5 = 25 km ²	4	2
Sentinel Sensor Plt/ADA Sensor Plt C4I (Light)			
(ARTEP 44-176-15-MTP) (ARTEP 44-116-16-MTP)			
• EW in offensive opns	5 x 10 = 50 km ²	4	1
• EW in defensive opns	5 x 5 = 25 km ²	4	1
• EW in movement to contact	8 x 31 = 248 km ²	4	1
ADA Btry Light, Abn, Air Asslt and Hvy Divisions and Corps/ADA Btry Bradley STINGER Fighting Veh/ADA Btry Gun or STINGER /Avenger Btry			
(ARTEP 44-177-35-MTP) (ARTEP 44-177-30-MTP) (ARTEP 44-117-30-MTP) (ARTEP 44-117-31-MTP)			
• AD For div assets	6 x 20 = 120 km ²	2	3
Transportation Motor Transport Co, S&S Bn, Abn/Air Asslt/Light Div			
(ARTEP 55-158-30-MTP)			
• Deploy/conduct maneuver	1.5 x 1.5 = 2.25 km ²	2	1
• Exercise cmd and control	1.5 x 1.5 = 2.25 km ²	2	1
• Perform CSS	1.5 x 1.5 = 2.25 km ²	2	2
• Protect the force	1.5 x 1.5 = 2.25 km ²	2	1

Table A-3. Maneuver area requirements for selected units at echelons above division

Introduction. This table includes units in echelons above division. It includes unit ARTEPs, missions, and mission maneuver area requirements. The unit ARTEPs are listed in ascending order.

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Attack Helicopter Troop, ACR (AH-64)			
(ARTEP 1-112-MTP)			
• Assembly area	1 x 1 = 1 km ²	4	6
• Screen	10 x 18 = 180 km ²	2	1
• Route recon	10 x 30 = 300 km ²	3	1
• Zone recon	10 x 30 = 300 km ²	4	1
• Area recon	10 x 10 = 100 km ²	4	1
• Deliberate attack ²	20 x 25 = 500 km ²	12	1
• Air assault security ³	16 x 18 = 288 km ²	2	1
Attack Helicopter Bn, Corps, (AH-64)			
(ARTEP 1-112-MTP)			
• Assembly area	3 x 3 = 9 km ²	4	6
• FARP	5 x 3 = 15 km ²	4	6
• Screen	10 x 18 = 180 km ²	2	1
• Route recon	10 x 30 = 300 km ²	3	1
• Zone recon	10 x 30 = 300 km ²	3	1
• Area recon	10 x 10 = 100 km ²	4	1
• Deliberate attack ²	20 x 25 = 500 km ²	12	1
• Air assault security ³	16 x 18 = 288 km ²	2	1

² Deliberate attack iterations include attacks in the close and deep fight. They do not include iterations of the hasty attack. Maneuver area dimensions are for a battalion mission. Enroute distance will vary depending on METT-T. While not necessary to own the land under the air routes, certain factors must be considered in selecting them, to include: airspace; noise complaints; populated areas (Federal Aviation Regulations, bright lights, affect NVGs); hazards to flight (power lines, radio towers, and civilian airfields); and landing rights for FARPs, holding areas, emplacement of enroute threats, and downed aircraft recovery.

³ The maneuver area for air assault operations is based on a light infantry battalion in the offense. It does not include land requirements for pick-up zones. Considerations for air routes are the same as note number 2.

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Assault Helicopter Troop, ACR			
(ARTEP 1-113-MTP)			
• Assembly area	1 x 1 = 1 km ²	5	6
• Air assault ³	16 x 18 = 288 km ²	10	1
• Air Volcano	5 x 1 = 5 km ²	5	1
• FATHAWK/FARP	5 x 3 = 15 km ²	10	1
• Combat svc spt opns	14 x 31 = 434 km ²	2	1
Air Cavalry Troop, ACR			
(ARTEP 1-114-MTP)			
• Assembly area	1 x 1 = 1 km ²	6	6
• Screen	10 x 18 = 180 km ²	3	1
• Route recon	10 x 30 = 300 km ²	6	1
• Zone recon	10 x 30 = 300 km ²	6	1
• Area recon	10 x 10 = 100 km ²	6	1
• Deliberate attack ²	20 x 25 = 500 km ²	16	1
• Air assault security ³	16 x 18 = 288 km ²	3	1
Heavy Lift Helo Bn, Corps/Theater			
(ARTEP 1-245-MTP)			
• Assembly area	4 x 4 = 16 km ²	5	6
• Air assault ³	16 x 18 = 288 km ²	10	1
• FATCOW/FARP	5 x 3 = 15 km ²	10	1
• Combat svc spt opns	14 x 31 = 434 km ²	2	1
HHD, Chemical Bn (Corps)			
(ARTEP 3-116-MTP)			
• Conduct base opns	1 x 1 = 1 km ²	2	2

² Deliberate attack iterations include attacks in the close and deep fight. They do not include iterations of the hasty attack. Maneuver area dimensions are for a battalion mission. Enroute distance will vary depending on METT-T. While not necessary to own the land under the air routes, certain factors must be considered in selecting them, to include: airspace; noise complaints; populated areas (Federal Aviation Regulations, bright lights, affect NVGs); hazards to flight (power lines, radio towers, and civilian airfields); and landing rights for FARPs, holding areas, emplacement of enroute threats, and downed aircraft recovery.

³ The maneuver area for air assault operations is based on a light infantry battalion in the offense. It does not include land requirements for pick-up zones. Considerations for air routes are the same as note number 2.

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Chemical Company (Recon)			
(ARTEP 3-207-10-MTP) (ARTEP 3-457-30-MTP)			
• Conduct NBC recon	5 x 10 = 50 km ²	4	1
• Conduct NBC survey	3 x 5 = 15 km ²	4	1
• Conduct conventional recon	10 x 10 = 100 km ²	4	1
• Conduct base operations	3 x 3 = 9 km ²	2	2
Chemical Company (SPOD)⁹			
(ARTEP 3-207-10-MTP) (ARTEP 3-457-30-MTP)			
• Conduct NBC recon	5 x 10 = 50 km ²	4	1
• Conduct NBC survey	3 x 5 = 15 km ²	4	1
• Conduct conventional recon	10 x 10 = 100 km ²	4	1
• Conduct base cluster operations	3 x 3 = 9 km ²	2	2
Chemical Company (Corps)(Decon)			
(ARTEP 3-457-10-MTP) (ARTEP 3-457-30-MTP)			
• Conduct decon opns	2 x 5 = 10 km ²	4	1
• Conduct base cluster operations	2 x 2 = 4 km ²	2	2
Chemical Company (Smoke)			
(ARTEP 3-457-10-MTP) (ARTEP 3-457-30-MTP)			
• Conduct smoke opns	15 x 20 = 300 km ²	4	1
• Conduct base cluster opns (Defend/Sustain)	4 x 4 = 16 km ²	2	2
Chemical Platoon (Mtrz)(D/P)(Abn/Asslt)			
(ARTEP 3-457-10-MTP)			
• Conduct decon opns	3 x 3 = 9 km ²	6	1
• Conduct smoke opns	5 x 5 = 25 km ²	4	1

⁹ Requires MOUT site, airfield, or equivalent.

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Chemical Co(D/P)(Abn/Asslt)			
(ARTEP 3-457-30-MTP)			
• Conduct base opns	2 x 2 = 4 km ²	2	2
Biological Integrated Detection Sys (BIDS) Plt⁹			
(ARTEP 3-477-10-MTP)			
• Conduct line array biological survey	1 x 20 = 20 km ²	4	1
• Conduct critical node biological survey	1 x 4 = 4 km ²	4	1
Long-Range Biological Surveillance/Detection Sys (LRBSDS)(UH60)			
(ARTEP 3-477-10-MTP)			
• Conduct standoff biological survey	15x 20 = 300 km ²	4	1
Engineer Company (CSE)			
(ARTEP 5-423-35-MTP)			
• Sustainment engineering	4 x 8 = 32 km ²	3	1
• Fight as engineers	4 x 6 = 24 km ²	2	1
Engineer Bn (Corps) (Wheeled)(Abn)(Light)			
(ARTEP 5-425-66-MTP)			
(ARTEP 5-445-64-MTP)			
(ARTEP 5-445-66-MTP)			
• Mobility operations	7 x 10 = 70 km ²	2	1
• Countermobility operations	7 x 10 = 70 km ²	2	1
• Survivability operations	7 x 10 = 70 km ²	2	1
• Sustainment engineering	7 x 10 = 70 km ²	2	1
• Fight as infantry	13 x 16 = 208 km ²	2	1
Engineer Platoon (Corps) (Wheeled)(Abn)(Light)			
(ARTEP 5-427-10-MTP)			
(ARTEP 5-447-10-MTP)			
(ARTEP 5-447-11-MTP)			
• Mobility operations	2 x 10 = 20 km ²	2	1
• Countermobility operations	2 x 10 = 20 km ²	2	1
• Survivability operations	2 x 10 = 20 km ²	2	1

⁹ Requires MOUT site, airfield, or equivalent.

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Sustainment engineering	2 x 10 = 20 km ²	2	1
• Fight as infantry	3 x 5.5 = 16.5 km ²	2	1
Engineer Company (Corps) (Wheeled)(Abn)(Light)			
(ARTEP 5-427-35-MTP) (ARTEP 5-447-35-MTP) (ARTEP 5-447-37-MTP)			
• Mobility operations	3.5 x 10 = 35 km ²	2	1
• Countermobility operations	3.5 x 10 = 35 km ²	2	1
• Survivability operations	3.5 x 10 = 35 km ²	2	1
• Sustainment engineering	3.5 x 10 = 35 km ²	2	1
• Fight as infantry	6 x 8 = 48 km ²	2	1
Engineer Platoon (Corps) (Mech)			
(ARTEP 5-435-10-MTP)			
• Mobility operations	4 x 12 = 48 km ²	2	1
• Countermobility operations	4 x 12 = 48 km ²	2	1
• Survivability operations	4 x 12 = 48 km ²	2	1
• Sustainment engineering	4 x 12 = 48 km ²	2	1
• Fight as engineers	4 x 6 = 24 km ²	2	1
Engineer Company (Corps) (Mech)			
(ARTEP 5-435-35-MTP)			
• Mobility operations	8 x 12 = 96 km ²	2	1
• Countermobility operations	8 x 12 = 96 km ²	2	1
• Survivability operations	8 x 12 = 96 km ²	2	1
• Sustainment engineering	8 x 12 = 96 km ²	2	1
• Fight as engineers	6 x 14 = 84 km ²	2	1
Engineer Battalion (Corps) (Mech)			
(ARTEP 5-435-66-MTP)			
• Mobility operations	12 x 16 = 192 km ²	2	1
• Countermobility operations	12 x 16 = 192 km ²	2	1
• Survivability operations	12 x 16 = 192 km ²	2	1
• Sustainment engineering	12 x 16 = 192 km ²	2	1
• Fight as engineers	6 x 17 = 102 km ²	2	1

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
FA Btry, ACR, 155mm, SP⁴ (ARTEP 6-037-30-MTP)			
• Deliver fires ⁵	5 x 31 = 155 km ²	TRC A=4 TRC C=2	2
• Move	3 x 15 = 35 km ²	TRC A=12 TRC C=6	1
• Survive ⁶			
FA Battery, 155mm SP/T and 105mm T⁴ (ARTEP 6-037-30-MTP)			
• Deliver fires ⁵	105mm-4x20=80 km ² 155mm-5x31=155 m ²	TRC A=4 TRC C=2	2
• Move	3 x 5 = 15 km ²	TRC A=4 TRC C=2	2
• Survive ⁶			
FA Platoon, 155mm SP⁴ (ARTEP 6-037-30-MTP)			
• Deliver fires ⁵	3 x 18 = 54 km ²	TRC A=2 TRC C=1	1
• Move	2 x 2 = 4 km ²	TRC A=12 TRC C=6	1
• Survive ⁶			
FA Bn, 155mm SP/T and 105mm T⁴ (ARTEP 6-115-MTP)			

⁴ Unit also has other ARTEP missions. Those other missions can be performed in the maneuver land available for the ARTEP missions shown in the table.

⁵ When using munitions not approved for overhead firing, the maneuver area requirements shown in the “Deliver Fires” block apply. With munitions approved for overhead firing, the maneuver area shown in the “Move” block apply plus an impact area 6 x 8 = 48 km².

⁶ FA units have a “survive” mission, but the subordinate missions of “survive” vary from unit to unit. Units select those subordinate “survive” missions below that apply to their unit.

Tasks	Maneuver Area Reqmts	Annual Repetitions	Days/Repetition
Direct Fire	11 x 1 = 11 km ²	1	1
BFIST	5 x 1 = 5 km ²	1	1
.50 cal MG	4 x 1 = 4 km ²	1	1
M60 MG	4 x 1 = 4 km ²	1	1
AT-4/LAW	1 x 1 = 1 km ²	1	1
Individual Weapon	4 x 1 = 4 km ²	1	1

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Deliver fires ⁵	105-15x20=300km ² 155-15x31=465km ²	105-TRC A=4 155-TRC A=2 105/155-TRC C=2	3
• Survive ⁶			
HQB, 155mm SP⁴ (ARTEP 6-115-MTP)			
• Move	3 x 5 = 15 km ²	TRC A=12 TRC C=6	1
• Survive ⁶			
FA Platoon, MLRS⁴ (ARTEP 6-397-MTP)			
• Deliver fires	4 x 18 = 72 km ²	TRC A=2 TRC C=1	1
• Move	3 x 3 = 9 km ²	TRC A=12 TRC C=6	1
• Survive ⁶			
FA Battery MLRS⁴ (ARTEP 6-397-30-MTP)			
• Deliver fires	10 x 18 = 180 km ²	TRC A=2 TRC C=1	1
• Move	3 x 3 = 9 km ²	TRC A=12 TRC C=6	1
• Survive ⁶			
FA Battalion MLRS (ARTEP 6-395-MTP)			
• Deliver fires	30 x 18 = 540 km ²	TRC A=4;TRC C=2	3
• Move		TRC A=12;TRC C=6	1
• Survive ⁶			

⁴ Unit also has other ARTEP missions. Those other missions can be performed in the maneuver land available for the ARTEP missions shown in the table.

⁵ When using munitions not approved for overhead firing, the maneuver area requirements shown in the “Deliver Fires” block apply. With munitions approved for overhead firing, the maneuver area shown in the “Move” block apply plus an impact area 6 x 8 = 48 km².

⁶ FA units have a “survive” mission, but the subordinate missions of “survive” vary from unit to unit. Units select those subordinate “survive” missions below that apply to their unit.

Tasks	Maneuver Area Reqmts	Annual Repetitions	Days/Repetition
Direct Fire	11 x 1 = 11 km ²	1	1
BFIST	5 x 1 = 5 km ²	1	1
.50 cal MG	4 x 1 = 4 km ²	1	1
M60 MG	4 x 1 = 4 km ²	1	1
AT-4/LAW	1 x 1 = 1 km ²	1	1
Individual Weapon	4 x 1 = 4 km ²	1	1

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Ranger Platoon			
(ARTEP 7-8-MTP)			
• Attack	4 x 8 = 32 km ²	4	1
• Defend	3 x 3 = 9 km ²	4	1
• Reconnaissance and security operations	6 x 6 = 36 km ²	4	1
• Raid	3 x 6 = 18 km ²	4	1
• Ambush	3 x 6 = 18 km ²	4	1
• Surveillance operations	4 x 5 = 20 km ²	4	1
Ranger Company			
(ARTEP 7-10-MTP)			
• Attack	8 x 10 = 80 km ²	4	1
• Defend	4 x 5 = 20 km ²	4	1
• Reconnaissance and security operations	8 x 10 = 80 km ²	4	1
• Raid	6 x 8 = 48 km ²	4	1
• Ambush	6 x 8 = 48 km ²	4	1
• Surveillance operations	8 x 10 = 80 km ²	4	1
Infantry Battalion (Ranger)			
(ARTEP 7-20-MTP)			
• Attack	12 x 16 = 192 km ²	4	1
• Defend	6 x 6 = 36 km ²	4	1
• Reconnaissance and security operations	15 x 15 = 225 km ²	4	1
Medical Co, Air Ambulance			
(ARTEP 8-279-30-MTP)			
• Deploy	30 x 20 = 600 km ²	2	1
• Relocate	30 x 20 = 600 km ²	2	1
• Establish	30 x 20 = 600 km ²	2	1
• Perform opnl mission	30 x 20 = 600 km ²	2	2
• Defend	30 x 20 = 600 km ²	2	1
• Redeploy	30 x 20 = 600 km ²	2	1
Medical Det, Vet Svc and Medical Det, Vet Svc Small			
(ARTEP 8-417-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1

**Table A-3. Maneuver area requirements for selected units at echelons
above division (cont)**

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Medical Det, Vet Med			
(ARTEP 8-418-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
HQ Det, Medical Evac Bn			
(ARTEP 8-446-30-MTP)			
• Deploy	3 x 4 = 12 km ²	2	1
• Relocate	3 x 4 = 12 km ²	2	1
• Establish	3 x 4 = 12 km ²	2	1
• Perform opnl mission	3 x 4 = 12 km ²	2	2
• Defend	3 x 4 = 12 km ²	2	1
• Redeploy	3 x 4 = 12 km ²	2	1
HQ Det, Area Spt Med Bn			
(ARTEP 8-456(MRI)-30-MTP)			
• Deploy	3 x 4 = 12 km ²	2	1
• Relocate	3 x 4 = 12 km ²	2	1
• Establish	3 x 4 = 12 km ²	2	1
• Perform opnl mission	3 x 4 = 12 km ²	2	2
• Defend	3 x 4 = 12 km ²	2	1
• Redeploy	3 x 4 = 12 km ²	2	1
HQ Det, Area Spt Med Bn			
(ARTEP 8-456-30-MTP)			
• Deploy	3 x 4 = 12 km ²	2	1
• Relocate	3 x 4 = 12 km ²	2	1
• Establish	3 x 4 = 12 km ²	2	1
• Perform opnl mission	3 x 4 = 12 km ²	2	2
• Defend	3 x 4 = 12 km ²	2	1
• Redeploy	3 x 4 = 12 km ²	2	1
HQ, Medical Bn (Area Spt)			
(ARTEP 8-456-MTP)			1
• Deploy	4 x 4 = 16 km ²	2	1
• Plan	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1

**Table A-3. Maneuver area requirements for selected units at echelons
above division (cont)**

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Area Spt Medical Co			
(ARTEP 8-457(MRI)-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Area Spt Medical Co			
(ARTEP 8-457-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Medical Co, Holding			
(ARTEP 8-458-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Medical Co/Det, Cbt Stress			
(ARTEP 8-467(MRI)-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Medical Co/Det, Cbt Stress Control			
(ARTEP 8-467-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1

**Table A-3. Maneuver area requirements for selected units at echelons
above division (cont)**

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Dental Co (Area Spt)			
(ARTEP 8-478(MRI)-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
HQ, Med Bn, Logistics			
(ARTEP 8-485-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Log Spt Co/Det and Distribution Co (Fwd/Rear)			
(ARTEP 8-487-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Theater Army Medical Lab			
(ARTEP 8-657-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Area Spt Medical Det			
(ARTEP 8-753(MRI)-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Theater Med Materiel Management Center			
(ARTEP 8-897-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Ordnance Det (EOD)			
(ARTEP 9-527-30-MTP)			
• Command and control of EOD teams	1.5 x 1.5 = 2.25 km ²	4	1
QM Airdrop Equip Spt Co			
(ARTEP 10-337-30-MTP)			
• Conduct tactical opns	1 x 1 = 1 km ²	1	1
QM Bn (Petrl Pipeline and Terminal Operations)			
(ARTEP 10-416-MTP)			
• Direct bulk Petrl spt operations	.5 x .5 = 25 km ²	1	1
HHC, Petrl Grp and HHC, QM Bn (Petrl Pipeline and Terminal Operations)			
(ARTEP 10-416-30-MTP)			
• Conduct sustainment spt operations	.5 x .5 = 25 km ²	1	1
QM Petrl Pipeline and Terminal Opns Company			
(ARTEP 10-417-30-MTP)			
• Provide bulk Petrl terminal spt	.5 x .5 = 25 km ²	1	1
Petroleum Supply Bn			
(ARTEP 10-426-MTP)			
• Direct CI III bulk Petrl spt operations	.25 x .25 = .0625 = km ²	1	1
HHD, Petrl Supply Bn			
(ARTEP 10-426-30-MTP)			
• Provide sustainment to headquarters spt opns	.25 x .35 = .0875 km ²	1	1
Petroleum Supply Co			
(ARTEP 10-427-30-MTP)			

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Conduct CI III bulk Petrol operations	.5 x .5 = .25 km ²	1	1
QM Co (Airdrop Sup, Light) and QM Co (Airdrop Sup, Hvy)			
(ARTEP 10-443-30-MTP)			
• Conduct tactical opn	1 x 1 = 1 km ²	1	1
QM Airdrop Equip Repair and Supply Co			
(ARTEP 10-449-30-MTP)			
• Conduct tactical opns	1 x 1 = 1 km ²	1	1
Hq, QM Bn (Water)			
(ARTEP 10-466-MTP)			
• Direct water spt opn	1 x 2 = 2 km ²	1	1
Hq Det, QM Bn (Water Supply)			
(ARTEP 10-466-30-MTP)			
• Provide sustainment spt to bn hq	10 x 10 = 100 km ²	1	1
QM Co (Water Supply)(DS/GS); Tactical Water Distribution Tm (Hoseline) and Water Purification Tm (Barge-Mount ROWPU)			
(ARTEP 10-468-30-MTP)			
• Conduct water supply, purification, and distribution opns, QM water purification	10 x 10 = 100 km ²	1	1
Det (GS) and QM Water Purification Tm (12,000 GPH)			
(ARTEP10-469-30-MTP)			
• Conduct water purificaton opn	1 x 1 = 1 km ²	1	1
QM Collection Co			
(ARTEP 10-498-30-MTP)			
• Conduct mortuary affairs operations	.6 x .6 = .36 km ²	1	1

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Hq Co, Petrl Group			
(ARTEP 10-602-MTP)			
• Manage bulk petrol and water spt operations	1 x 1 = 1 km ²	1	1
QM MA Co (EAC)			
(ARTEP 10-698-30-MTP)			
• Conduct mortuary affairs operations	.6 x .6 = .36 km ²	1	1
Corps Area Signal Battalion			
(ARTEP 11-435-MTP)			
(ARTEP 11-437-30-MTP)			
• Signal/tactical operations	30 x 30 = 900 km ²	4	5
Corps Signal Support Battalion			
(ARTEP 11-445-MTP)			
(ARTEP 11-447-30-MTP)			
• Signal/tactical operations	30 x 30 = 900 km ²	4	5
Armored Cavalry Squadron, ACR			
(ARTEP 17-385-MTP)			
• Reconnaissance operations	20 x 30 = 600 km ²	2	1
• Screening operations	20 x 30 = 600 km ²	2	1
HHT, Armored Cavalry Squadron, ACR			
(ARTEP 17-487-30-MTP)			
• Tactical operations	2 x 2 = 4 km ²	2	1
Armored Cavalry Troop, ACR			
(ARTEP 17-487-30-MTP)			
• Reconnaissance operations	12 x 30 = 360 km ²	3	1
• Screening operations	12 x 30 = 360 km ²	3	1
Combat Support MP Plt			
(ARTEP 19-313-10-MTP)			
• Area security	12 x 12 = 144 km ²	2	1
• Maneuver and mobility support	12 x 12 = 144 km ²	2	1
• Internment/re-settlement	12 x 12 = 144 km ²	2	1
• Law and order	12 x 12 = 144 km ²	2	1
• Police intelligence	12 x 12 = 144 km ²	2	1
Combat Support MP Co			
(ARTEP 19-313-30-MTP)			
• Area security	30 x 50 = 1500 km ²	2	1

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Maneuver and mobility support	30 x 50 = 1500 km ²	2	1
• Internment/re-settlement	30 x 50 = 1500 km ²	2	1
• Law and order	30 x 50 = 1500 km ²	2	1
• Police intelligence	30 x 50 = 1500 km ²	2	1
S&T Troop, ACR			
(ARTEP 29-6-MTP)			
• Tactical operations	3 x 10 = 30 km ²	4	1
HHC Special Forces Group			
(ARTEP 31-805-MTP)			
• Tactical operations	5 x 5 = 25 km ²	2	1
Special Forces Battalion			
(ARTEP 31-807-MTP)			
• Establish battalion trains	10 x 10 = 100 km ²	2	1
• Tactical operations	10 x 10 = 100 km ²	2	1
Special Forces Company			
(ARTEP 31-805- MTP)			
• Infiltrate an area of operations	15 x 20 = 300km ²	4	2
• Raid	8 x 10 = 80 km ²	4	2
• Ambush	6 x 8 = 48 km ²	3	1
• Linkup operations	8 x 10 = 80 km ²	2	2
Special Forces Detachment			
(ARTEP 31-807-30-MTP)			
• Infiltrate an area of operations	8 x 20 = 160 km ²	4	2
• Raid	6 x 8 = 48 km ²	4	2
• Ambush	5 x 6 = 30 km ²	3	1
• Linkup operations	6 x 10 = 60 km ²	2	2
Support Company, SF Group			
(ARTEP 31-805-MTP)			
• Tactical operations	10 x 10 = 100 km ²	4	2
PSYOP Battalion			
(ARTEP 33-725-60-MTP)			
• Tactical operations	12 x 12 = 144 km ²	4	2
Collection and Jamming Platoon, ACR			
(ARTEP 34-114-30-MTP)			
• Provide SIGINT and EW support	5 x 10 = 50 km ²	4	1

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Collection and Jamming Company (Corps)			
(ARTEP 34-113-12-MTP)			
• Provide SIGINT and EW support	4 x 15 = 60 km ²	4	1
MI Company, ACR			
(ARTEP 34-114-30-MTP)			
• Provide intelligence support	4 x 15 = 60 km ²	4	3
EW Platoon, ACR			
(ARTEP 34-114-30-MTP)			
• Provide SIGINT and EW support	5 x 10 = 50 km ²	4	1
Civil Affairs Battalion			
(ARTEP 41-705-MTP)			
• Tactical operations	15 x 15 = 225 km ²	4	2
Supply and Transport Co, Spt Bn, Hvy Sep Bde or Sep Inf Bde or Thtr Defensive Bde and Supply and Transport Trp, Spt Sqdn, ACR			
(ARTEP 42-077-30-MTP)			
• Provide DS ground maint, transport, CI V and IX repair parts	1 x 1 = 1 km ²	1	1
QM Field Service Co (DS), Corps Spt Bn or Supply and Service Bn			
(ARTEP 42-414-30-MTP)			
• Provide field services	1 x 1 = 1 km ²	1	1
QM Field Service Co (DS)			
(ARTEP 42-414-30-MTP)			
• Conduct field svc opn	1 x 1 = 1 km ²	1	1
Supply Co (GS), Supply and Service Bn			
(ARTEP 42-418-30-MTP)			
• Provide GS supplies	1 x 1 = 1 km ²	1	1
QM Repair Parts Supply Co (GS), Supply and Service Bn			
(ARTEP 42-419-30-MTP)			
• Provide GS repair parts	1 x 1 = 1 km ²	1	1

**Table A-3. Maneuver area requirements for selected units at echelons
above division (cont)**

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
QM Force Provider Co (ARTEP 42-424-30-MTP)			
• Conduct force provider operations	269.2 m x 269.2 m = 72,468.64 km ²	2	1
Hvy Materials Supply Co (ARTEP 42-427-30-MTP)			
• Provide GS CI VII supplies	1 x 1 = 1 km ²	1	1
Bn Hq, Supply and Service Bn (ARTEP 42-446-MTP)			
• Provide supply and service support	3 x 1.5 = 4.5 km ²	1	1
Hq Det Supply and Service Bn (ARTEP 42-446-30-MTP)			
• Spt the HH detachment	1 x 1 = 1 km ²	1	1
Maintenance Troop, ACR (ARTEP 43-187-30-MTP)			
• Tactical operations	3 x 10 = 30 km ²	4	1
Maintenance Company (Non-divisional) (ARTEP 43-209-30-MTP)			
• Tactical operations	4 x 4 = 16 km ²	4	1
Maintenance Company (ARTEP 43-209-30-MTP)			
• DS maint and repair parts supply	1.5 x 1.5 = 2.25 km ²	4	1
Bn Hq, Ordnance Bn (ARTEP 43-436-MTP)			
• Provide command and control	1.5 x 1.5 = 2.25 km ²	4	1
Maintenance Service Co (ARTEP 43-439-30-MTP)			
• Collection and classification	1.5 x 1.5 = 2.25 km ²	4	1
Maintenance Co (ARTEP 43-607-30-MTP)			
• DS maint and repair parts supply	1.5 x 1.5 = 2.25 km ²	4	1
Maintenance Co (ARTEP 43-648-30-MTP)			
• Provide GS CE maint	1.5 x 1.5 = 2.25 km ²	4	1

**Table A-3. Maneuver area requirements for selected units at echelons
above division (cont)**

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Maintenance Co			
(ARTEP 43-649-30-MTP)			
• Provide GS maint	1.5 x 1.5 = 2.25 km ²	4	1
STINGER Plt/STINGER Plt (Light and Special)			
(ARTEP 44-117-11-MTP)			
(ARTEP 44-117-12-MTP)			
• AD of static asset	5 x 5 = 25 km ²	4	2
• AD of mobile asset	5 x 5 = 25 km ²	4	2
• AD for movement to contact	5 x 5 = 25 km ²	4	2
• AD for breaching opns	5 x 5 = 25 km ²	4	2
Avenger Platoon			
(ARTEP 44-117-22-MTP)			
(ARTEP 44-117-21-MTP)			
• AD of static asset	5 x 5 = 25 km ²	4	2
• AD of mobile asset	5 x 5 = 25 km ²	4	2
• AD of task force	5 x 5 = 25 km ²	4	2
Sentinel Sensor Plt/ADA Sensor Plt C4I (Light)			
(ARTEP 44-176-15-MTP)			
(ARTEP 44-116-16-MTP)			
• EW in offensive opns	5 x 10 = 50 km ²	4	1
• EW in defensive opns	5 x 5 = 25 km ²	4	1
• EW in movement to contact	8 x 31 = 248 km ²	4	1
ADA Btry Light, Abn, Air Asslt, and Hvy Divisions and Corps/ADA Btry BSFV/ADA Btry Gun or STINGER/Avenger Btry			
(ARTEP 44-177-35-MTP)			
(ARTEP 44-177-30-MTP)			
(ARTEP 44-117-30-MTP)			
(ARTEP 44-117-31-MTP)			
• AD for div assets	6 x 20 = 120 km ²	2	3
ADA Battalion (Avenger)			
(ARTEP 44-435-MTP)			
• Conduct AD opns (Offense)	10 x 10 = 100 km ²	2	3
• Conduct Ad opns (Defense)	10 x 10 = 100 km ²	2	3
ADA Battalion (Patriot)			
(ARTEP 44-635-MTP)			
• AD of critical asset	30 x 60 = 1800 km ²	3	1

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
ADA Battery (Patriot)			
(ARTEP 44-637-30-MTP)			
• AD of critical asset	10 x 30 = 300 km ²	3	1
HHC, Transportation Composite Group			
(ARTEP 55-62-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd/control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Mvmt Control Bn and Teams			
(ARTEP 55-406-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd/control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
Transportation Mvmt Control Bn Hq Det			
(ARTEP 55-406-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd and control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Watercraft Unit			
(ARTEP 55-500-30-MTP)			
• Deploy/conduct maneuver ¹²	2 x 2 = 4 km ²	2	1
• Exercise cmd and ontrl	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation POCD and Augmentation Teams			
(ARTEP 55-560-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd/control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2

¹² If conducting logistics-over-the-shore operations a minimum of 500 meters of beach is needed per watercraft company.

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Protect the Force	2 x 2 = 4 km ²	2	1
Hq, Transportation Cmd (ARTEP 55-601-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd/control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Theater Army Movement Control Agency (ARTEP 55-603-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd/control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Watercraft Maint (DS/GS) (ARTEP 55-613-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd and control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Motor Transport Bn (ARTEP 55-716-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd/control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Hq Det Transportation Motor Transport Bn and Transportation Railway, and Hq Co, Transportation Terminal Bn (ARTEP 55-716-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd and control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Co, Light/Medium/Heavy Truck Company (ARTEP 55-717-30-MTP)			

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Deploy/conduct maneuver	2 x 10 = 20 km ²	2	1
• Exercise cmd and control	2 x 10 = 20 km ²	2	1
• Perform CSS	2 x 10 = 20 km ²	2	2
• Protect the force	2 x 10 = 20 km ²	2	1
Combat Heavy Transport Company			
(ARTEP 55-739-30-MTP)			
• Deploy/conduct maneuver	2 x 10 = 20 km ²	2	1
• Exercise cmd and control	2 x 10 = 20 km ²	2	1
• Perform CSS	2 x 10 = 20 km ²	2	2
• Protect the force	2 x 10 = 20 km ²	2	1
Transportation Terminal Bn			
(ARTEP 55-816-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd/control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Cargo Transport Company			
(ARTEP 55-819-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd and control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Railway Bn			
(ARTEP 55-916-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd and control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Railway Engineering Company			
(ARTEP 55-918-30-MTP) ¹³			
• Deploy/conduct maneuver	5 x 5 = 25 km ²	2	1
• Exercise cmd and control	5 x 5 = 25 km ²	2	1
• Perform CSS	5 x 5 = 25 km ²	2	2
• Protect the force	5 x 5 = 25 km ²	2	1

¹³ Area must have a minimum of 25 kilometers of track, plus sidings, signal stations, and train movement control facilities.

Table A-3. Maneuver area requirements for selected units at echelons above division (cont)

Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Transportation Railway Equip Maint Company ¹⁰			
(ARTEP 55-919-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd and control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Train Operating Company			
(ARTEP 55-927-30-MTP) ¹³			
• Deploy/conduct maneuver	5 x 5 = 25 km ²	2	1
• Exercise cmd and control	5 x 5 = 25 km ²	2	1
• Perform CSS	5 x 5 = 25 km ²	2	2
• Protect the force	5 x 5 = 25 km ²	2	1
Support Squadron, ACR			
(ARTEP 63-065-MTP)			
• Tactical operations	6 x 20 = 120 km ²	4	1
HHC Corps Support Group			
(ARTEP 63-422-30-MTP)			
• Tactical operations	6 x 20 = 120 km ²	2	1
HHC Corps Support Bn			
(ARTEP 63-426-30-MTP)			
• Tactical opns	6 x 20 = 120 km ²	2	1

¹⁰ Must have access to railheads and sidings.

¹³ Area must have a minimum of 25 kilometers of track, plus sidings, signal stations, and train movement control facilities.

Table A-4. Maneuver area requirements for the IBCT, Transformation Force

Information on IBCT units, ARTEPS and mission training plans, and maneuver area requirements were not available at the time of publication. As these are developed by the proponent, they will be included in the annual TC 25-1 updates.

Appendix B

Institutional Maneuver Area Requirements

“To lead an untrained people to war is to throw them away.”
Confucius

B-1. Introduction.

a. Army training begins with a individual soldier attending a TRADOC school. The training progresses from soldierization training, through military occupational specialty training, noncommissioned officer and officer basic and advanced courses supplemented by professional development training. Schools use Programs of Instruction (POI) to identify the resources required to execute the training to include maneuver area requirements.

b. The POI information collected for and published in this circular will change as new equipment, training strategies, and course design are introduced. However, the methodology is sound and can adapt to these changes. Current POI information may be available directly from the TRADOC schools and their websites.

B-2. **Methodology.** The following conversion computations were made to school supplied data. Square kilometers equal acres divided by 247.1. Days equal hours divided by 8, rounded up to the next half day. Some range requirements are also included.

B-3. **Headings.** “Course” is the POI instruction. “Event” is the training that requires maneuver areas. “Size” is the number of square kilometers required to conduct the training. “Duration” is the number of days required to conduct the training (annual repetitions depend on school load and local conditions).

Institutional POI Maneuver Area Requirements

Courses	Events	Size (km)	Duration (Days)
Adjutant General School (Soldiers Support Institute), Fort Jackson			
71L10 Administrative Specialist	FTX	12 km ²	4
27D10 Paralegal Specialist	FTX	12 km ²	4
75H10 Personnel Svc Specialist	FTX	12 km ²	4
75B10 Personnel Admin Specialist	FTX	12 km ²	4
75F10 Personnel Info Sys Mgmt Spec	FTX	12 km ²	4
AGOBC AG Officer Basic Course	FTX	12 km ²	8
AGCCC AG Captain Career Course	FTX	12 km ²	10

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Air Defense Artillery School, Fort Bliss			
043-14 D10X(T) Hawk Missile System Crewmember	STX/FTX	1 km ²	34.0
043-14 D10XES Hawk Missile System Crewmember (non-US)	STX/FTX	1 km ²	39.0
043-14E10 Patriot Fire Control Operator	STX/FTX	1 km ²	64.0
043-14J10 ADA C4I TAC OPN CTR ENH OPR/Maint	Sys Integration	1 km ²	8.0
043-14M10 Man-Portable Air Defense System (MANPADS)	Operate STINGER	1 km ²	2.5
043-14R10 Bradley LINEBACKER Crewmember	Drive BSFV (Day)	1 km ²	1.0
043-14R10 Bradley LINEBACKER Crewmember	Drive BSFV (Night)	1 km ²	0.5
043-14R10 Bradley LINEBACKER Crewmember	Live Fire STX	192 km ²	5.0
043-14R10 Bradley LINEBACKER Crewmember	Aerial Gunnery/Trk	1 km ²	5.0
043-14S10 AVENGER Crewmember	STX at ADA Firing Range	3 km ²	5.0
043-14S10 AVENGER Crewmember	FTX	10 km ²	5.0
043-14T10 PATRIOT Launching Station Enhancer	STX/FTX	1 km ²	38.5
043-16S10 Manpad System Crewmember	ADA Live Fire	3 km ²	5.0
104-F21X HAWK Fire Control Mechanic (PIP III):	STX/FTX	1 km ²	4.0
104-7222 (OS) HAWK Missile System Operator	STX/FTX	1 km ²	32.5
121-AS18A Identification Friend or Foe		1 km ²	5.0
121-F38X HAWK Firing Sec & Pulse Equip Mechanic (PIP III)	STX/FTX	1 km ²	3.5
121-27X2/3/4 PATRIOT System Repairer (Rpr)	STX/FTX	1 km ²	3.0
121-7212(OS) STINGER Gunner/AVENGER Crewmember	ADA Live Fire	3 km ²	5.0
2-44-C20 ADA Officer Basic (CC)	Map Reading Course	10 km ²	1.0
2-44-C20 ADA Officer Basic (CC)	FTX-PLT Lane Tng	40 km ²	2.5
2-44-C20 ADA Officer Basic (CC)	FTX-Lane Training	40 km ²	5.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Air Defense Artillery School, (cont)			
2-44-C20(14B) ADA Officer Basic (FAADS Weapons Track)	ADA Live Fire	1 km ²	5.0
2-44-C20(14E) ADA Officer Basic (PATRIOT Track)	STX/FTX	1 km ²	15.5
2-44-C22 ADA Officer Advanced	Bivouac	1 km ²	6.0
2-44-C23 ADA Officer Advanced-RC	Bivouac	1 km ²	6.0
2-44-C32 ADA Warrant Officer (WO) Advanced	MOS Training	3 km ²	3.0
2E-7204 (OS) Low Altitude ADA Officer	ADA Live Fire	3 km ²	3.0
2F-FOA-F15 ADA Officer Advanced (Patriot Follow-On)	STX/FTX	1 km ²	11.0
2F-14D (PIP III) HAWK Officer	STX/FTX	1 km ²	25.0
2F-14EX Patriot Air Defense Officer	STX/FTX	1 km ²	23.5
2F-14EX (ISRAEL) Patriot Operator (ICC)	STX/FTX	1 km ²	2.5
2G-F38(OS) TAC System/ADA Orientation	Orientation	1 km ²	2.0
2G-F85X International OAC Prep	Preparation	1 km ²	2.0
4F-140DX (PIP III) HAWK Sys Tech WO Basic	STX/FTX	3 km ²	16.0
4F-140E PATRIOT Sys Tech WO Basic	STX/FTX	3 km ²	575.0
632-23R10X HAWK Msl Sys Mechanic	STX/FTX	3 km ²	23.0
632-23R10X MODIFIED PATRIOT Opr & Sys Mechanic	STX/FTX	3 km ²	385.5
0-14-C40 ADA BNCOC	PMCS	16 km ²	0.5
0-14-C40 ADA BNCOC	FTX	16 km ²	10.5
620-11-PLDC Primary Leadership Development	STX/FTX	2 km ²	13.0
620-11-PLDC Primary Leadership Development	Land Navigation	2 km ²	1.5
Army Medical Department Center and School (AMEDDC&S), Fort Sam Houston			
AMEDD Officer Basic Course 6-8-C20 (All Corps)	Prep Module FTX	6.82 km ²	2.0
AMEDD Officer Basic Course 6-8-C20 (All Corps)	FTX	14.4 km ²	5.0
AMEDD Officer Basic Course 6-8-C20 (Med Svc Corps Track)	Combat Health Support Exercise (CHSX)	20.4 km ²	5.0
AMEDD Officer Basic Course 6-8-C20 (Nurse Corps Track)	FTX	2.02 km ²	4.0
AMEDD Officer Basic Course 6-8-C20 (HPSP-RC)	FTX	14.4 km ²	5.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
AMEDDC&S (cont)			
AMEDDD Officer Basic Course 6-8-C20 (Allied Science Track 71E)	CHSX	0.5 km ²	2.0
AMEDDD Officer Basic Course 6-8-C20 (USUHS)	FTX	14.4 km ²	5.0
AMEDDD Officer Basic Course 6-8-C20 (RC)	FTX	14.4 km ²	4.0
AMEDDD Officer Basic Course 6-8-C20 (All Corps)	Prep Module FTX	6.82 km ²	2.0
AMEDDD Officer Basic Course 6-8-C20 (All Corps)	FTX	14.4 km ²	5.0
AMEDDD Officer Basic Course 6-8-C20 (Med Svc Corps Track)	Combat Health Support Exercise (CHSX)	20.4 km ²	5.0
AMEDDD Officer Basic Course 6-8-C20 (Nurse Corps Track)	FTX	2.02 km ²	4.0
AMEDDD Officer Basic Course 6-8-C20 (HPSP-RC)	FTX	14.4 km ²	5.0
AMEDDD Officer Basic Course 6-8-C22 (All Corps)	FTX	0.51 km ²	3.0
Combat Casualty Care Course 6A-C4:	FTX	4.50 km ²	9.0
Bushmasters:	FTX	21.4 km ²	12.0
AMEDDD NCO Basic (BNCOC) 6-8-C4 (All Corps)	FTX	20.2 km ²	5.0
AMEDDD NCO Basic (BNCOC) 91E30	FTX	1.00 km ²	1.0
AMEDDD NCO Basic (BNCOC) 91M30	FTX	0.50 km ²	1.0
AMEDDD NCO Basic (BNCOC) 91W30	FTX	7.00 km ²	5.0
AMEDDD NCO Advanced (ANCOC) 6-8-C42 (All Corps)	FTX	2.68 km ²	5.0
AMEDDD NCO Advanced (ANCOC) 91M30	FTX	0.50 km ²	1.0
Occupational Therapy 303-N3 91W ASI	FTX	0.50 km ²	2.5
Joint Fld Nutrition Operations 6H-A0619		0.50 km ²	10.0
Joint Enlisted Nutrition Short Course 6H-300:	FTX	0.50 km ²	5.0
Management of Combat Stress Casualties 6H-300/A0620	FTX	0.50 km ²	9.5
Preventive Dentistry 330-X2 91E ASI	PE	0.50 km ²	0.5
Principles of Military Preventive Medicine 6A-F5	FTX	2.75 km ²	3.0
Health Physics Specialty Course 322-N4 91S ASI	FTX	0.71 km ²	2.0
MEDCOM CSM/SGM/SR NCO Short Course 340-A0715	FTX	0.50 km ²	1.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
AMEDDC&S (cont)			
AMEDDEX	FTX	2.02 km ²	14.0
Expert Field Medical Badge (EFMB) Train Up FTX	Training	10.00 km ²	10.0
EFMB Testing FTX	Testing	10.00 km ²	5.0
Expert Field Medical Badge Challenge (EFMC) FTX	Challenge	6.00 km ²	18.0
91A10 AIT	FTX	0.50 km ²	5.0
Operating Room Specialists 301-91D10 AIT	FTX	0.50 km ²	3.0
Dental Specialist 330-91E10 AIT	FTX	0.50 km ²	3.0
Patient Administrative Specialist 513-91G10 AIT	FTX	0.50 km ²	3.0
Patient Administrative Specialist 513-91G10 Reserve Comp AIT	FTX	0.50 km ²	3.0
Optical Laboratory Specialist 42E10/91H10 AIT	FTX	0.50 km ²	3.0
Medical Supply Specialist 551-91J10 AIT	FTX	0.50 km ²	3.0
Medical Supply Specialist 551-91J10 Reserve Comp AIT	FTX	0.50 km ²	3.0
Medical Laboratory Specialist 311-91K10 AIT	FTX	0.50 km ²	3.0
Hospital Food Services Specialist 800-91M10	FTX	0.50 km ²	4.0
Hospital Food Services Specialist 800-91M10 Reserve Comp	FTX	0.50 km ²	4.0
Radiology Specialist 313-91P10 AIT	FTX	0.50 km ²	3.0
Pharmacy Specialist 312-91Q10 AIT	FTX	0.50 km ²	3.0
Veterinary Food Inspection Specialist 321-91R10 AIT	FTX	3.04 km ²	4.0
Veterinary Food Inspection Specialist 321-91R10 Reserve Comp AIT	FTX	3.04 km ²	4.0
Preventive Medicine Specialist 322-91S10 AIT	FTX	2.75 km ²	5.0
Preventive Medicine Specialist 322-91S10 AIT	STX	2.75 km ²	3.0
Preventive Medicine Specialist 322-91S10 Reserve Comp AIT	FTX	2.75 km ²	10.0
Animal Care Specialist 321-91T10 AIT	FTX	3.0 km ²	10.0
Respiratory Specialist 300-91V10 AIT	FTX	0.50m ²	4.0
Health Care Specialist 300-91W10 AIT	FTX	3.40 km ²	7.0
Mental Health Specialist 302-91X10 AIT	FTX	6.82 km ²	5.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Armor School, Fort Knox			
2-17-C20 Armor Officer Basic Course	Dismounted Land Navigation	16.0 km ²	1.5
2-17-C20 Armor Officer Basic Course	Dismounted Land Navigation Retest	16.0 km ²	1.0
2-17-C20 Armor Officer Basic Course	Protect the Force	.08 km ²	0.5
2-17-C20 Armor Officer Basic Course	MOUT	.11 km ²	3.0
2-17-C20 Armor Officer Basic Course	Offense/Threat STX	176.0 km ²	1.0
2-17-C20 Armor Officer Basic Course	Mounted Land Navigation	110.0 km ²	1.5
2-17-C20 Armor Officer Basic Course	Mounted Land Navigation Retest	110.0 km ²	1.0
2-17-C20 Armor Officer Basic Course	PLGR Tng	.65 km ²	0.5
2-17-C20 Armor Officer Basic Course	Diagnostic Army Physical Fitness Test (APFT)	.65 km ²	0.5
2-17-C20 Armor Officer Basic Course	APFT	.65 km ²	0.5
2-17-C20 Armor Officer Basic Course	Physical Readiness Tng	.65 km ²	5.0
2E-F137/521-F2, Scout Leader Course	Evaluate Route and Obstruction TEWT	2.0 km ²	.5
2E-F137/521-F2, Scout Leader Course	Mounted Tactical Tng	50.0 km ²	7.0
2E-F137/521-F2, Scout Leader Course	Mout Site STX	25.0 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK27, Perform Operator's Maintenance On the 120mm Breechblock Assembly	.004 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KO01, Armor Crewman Test (ACT) I	.02 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KO02, Armor Crewman Test (ACT) II	.02 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KD03, NBC Defense	.02 km ²	1.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School (cont)			
19K10-OSUT: M1A1 Abrams Armor Crewman	KH07, Engage Targets With An M9 Pistol (Concurrent and Non-Firing Tng)	.008 km ²	2.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK34, Boresight an M1A1 Tank	4.05 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK37, Main Gun And Coax Live Fire Range (Concurrent Tng)	.008 km ²	4.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KN08, Main Gun Firing (Concurrent Tng)	.008 km ²	0.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KH14, Fundamentals of Rifle Marksmanship I (Concurrent Tng)	.008 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KH15, Fundamentals of Rifle Marksmanship II (Concurrent Tng)	.008 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KH16, Grouping Procedures (Concurrent Tng)	.008 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KH17, Zero an M16A2 Rifle (Concurrent Tng)	.008 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KH18, Obtain Downrange Feedback (Concurrent Tng)	.008 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KH19, FIELD FIRE I (CONCURRENT Tng)	.008 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School (cont)			
19K10-OSUT: M1A1 Abrams Armor Crewman	KH20, FIELD FIRE II (Concurrent Tng)	.008 km ²	0.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KH21, Practice Record Fire I (Concurrent Tng)	.008 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KH22, Practice Record Fire II (Concurrent Tng)	.008 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KH23, Record Fire (Concurrent Tng)	.008 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KH01, Hand Grenades	.012 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KH10, Rifle Bayonet Tng Qualification Course (crse)	.012 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KB12, Hand To Hand	.008 km ²	4.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KB03, Confidence Obstacle Crse	.02 km ²	4.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KB11, Confidence Tower	.008 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KE01, Claymore Mine (Without Live Firing Demonstration)	.004 km ²	2.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KE07, Locate Mines By Probing	.004 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KE08, Neutralize Mines	.004 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK18, Drive An M1A1 Tank	8.09 km ²	4.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KB01, Physical Tng (PT1)	.02 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KR03, Physical Tng	.02 km ²	5.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Armor School, (cont)			
19K10-OSUT: M1A1 Abrams Armor Crewman	KR04, APFT	.02 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KD03, NBC Defense (NB2)	.02 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KI06, Individual Tactical Tng (Infiltration Crse) (IT6)	.04 km ²	3.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KA02, Drill and Ceremonies (Drill Orientation) (DC1)	.008 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KA03, Drill and Ceremonies (Individual Drill - Stationary Movements) (DC2)	.008 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KA04, Drill and Ceremonies (Individual Drill - Marching) (DC3)	.02 km ²	2.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KA06, Drill and Ceremonies (Squad Drill) (DC5)	.02 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KA07, Drill and Ceremonies (Platoon Drill) (DC6)	.02 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KA08, Drill and Ceremonies (Company Drill) (DC7)	.02 km ²	0.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KA16, Sentry Duties (GD2)	.008 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KA17, Inspections (IN1)	.008 km ²	10.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
19K10-OSUT: M1A1 Abrams Armor Crewman	KA25, Execute Manual of Arms with a Pistol	.008 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KB06, Rifle Bayonet Tng (Basic Movements) (RB1)	.008 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KB07, Rifle Bayonet Tng (Basic Attack Movements) (RB2)	.008 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KB08, Rifle Bayonet Tng (Basic Defensive Movements) (RB3)	.008 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KB09, Rifle Bayonet Tng (Individual Bouts) (RB4)	.008 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KO08, Drill And Ceremonies (Platoon Evaluation) (DC8)	.02 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KB13, Tactical Foot Marches (FM1)	15.0 km ²	7.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KG02, Terrain Association	10.0 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KG03, Land Navigation	50.0 km ²	7.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KN05, Boresight 120MM Main Gun	2.0 km ²	0.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KN06, Sand Table Exercise	.004 km ²	0.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KA15, Establish A Bivouac Site (MB1)	.02 km ²	2.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Armor School, (cont)			
19K10-OSUT: M1A1 Abrams Armor Crewman	KD05, Exchange MOPP Gear	.02 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KI02, Individual Tactical Tng (Camouflage, Cover And Concealment) (IT2)	.02 km ²	2.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KI03, Individual Tactical Movements (IT3 and IT5 MOD)	.02 km ²	4.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KI04, Individual Tactical Tng (Night Offensive Tng) (IT4)	.02 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK18, Drive an M1A1 Tank	2.0 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK19, Tow an M1A1 Tank	.02 km ²	2.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK20, Recover M1A1 Tank by Similar Vehicle	.02 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KM01, Situational Tng Exercise (STX)	10.0 km ²	15.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KO04, Armor Stakes	.02 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KI01, Individual Tactical Tng (Introduction to ITT) (IT1)	.008 km ²	0.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KH09, Clear And Load an M240 Machine Gun	.002 km ²	1.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
19K10-OSUT: M1A1 Abrams Armor Crewman	KH12, Mount/ Dismount A Caliber .50 M2 Machine Gun On An M1/M1A1/M1A2 Tank	.002 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KH24, Apply Immediate Action On An M240 Machine Gun	.002 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK03, Prepare Driver's Station For Operation On An M1/M1A1 Tank	.002 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK04, Start/Stop The Engine On An M1/M1A1 Tank	.002 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK05, Extinguish a Fire on a M1/M1A1 Tank	.002 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK06, Slave Start An M1/M1A1 Tank	.002 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK07, Operate the AN/VVS-2 Night Vision Viewer	.002 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK08, Operate the AN/VVS-2 Night Vision Viewer	.002 km ²	0.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK09, Secure the Drivers Station on an M1A1 Tank	.002 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Armor School, (cont)			
19K10-OSUT: M1A1 Abrams Armor Crewman	KK10, Inspect the Hydraulics on an M1A1 Tank	.002 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK11, Refuel an M1A1 Tank	.002 km ²	0.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK12, Unlock Stuck Parking Brakes on an M1A1 Tank	.002 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK13, Service the Air Induction System and Pre-cleaner on an M1A1 Tank	.002 km ²	2.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK14, Remove/Install Track Block(s) on an M1A1 Tank	.002 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK15, Troubleshoot Using Driver's Control Panel, Warning and Caution Lights	.002 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK16, Perform Driver's Before and After Operation Checks and Services	.002 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK21, Prepare / Secure the Loader's Station on an M1A1 Tank	.002 km ²	2.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
19K10-OSUT: M1A1 Abrams Armor Crewman	KK23, Stow Ammunition on an M1A1 Tank	.002 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK24, Load/Unload the 120MM Main Gun on an M1A1 Tank	.002 km ²	2.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK25, Load/Unload an M250 Grenade Launcher on an M1A1 Tank	.002 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK26, Troubleshoot the 120MM Main Gun on an M1A1 Tank	.002 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK27, Perform Operator's Maintenance on the 120MM Breechblock Assembly	.002 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK28, Clean/Service the 120MM Main Gun On An M1A1 Tank	.002 km ²	2.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK29, Operate the NBC System on an M1A1 Tank	.002 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK30, Perform Loader's Before and After Operation Checks and Services	.002 km ²	2.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
19K10-OSUT: M1A1 Abrams Armor Crewman	KK31, Prepare Gunner's Station for Operation on an M1A1 Tank	.002 km ²	5.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK32, Secure Gunner's Station on an M1A1 Tank	.002 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK33, Perform Gunner's Before and After Operation Checks and Services	.002 km ²	2.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK35, Main Gun Engagement Procedures	.002 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK36, COAX Engagement Procedures	.002 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK38, Prepare An M1A1 Tank for Power Pack Removal	.002 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK39, Main Gun Misfire Procedures on an M1A1 Tank	.002 km ²	1.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KK40, Emergency Evacuation Procedures	.002 km ²	2.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KK41, Evacuate a Wounded Crewman from an M1A1 Tank	.002 km ²	2.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KL01, Reinforcement Tng (ACT I)	.002 km ²	2.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
19K10-OSUT: M1A1 Abrams Armor Crewman	KL02, Reinforcement Tng (ACT II)	.002 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KL04, Reinforcement Tng (ARMOR STAKES)	.002 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KN01, SINCGARS Reinforcement Tng	.002 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KN03, Use SOI to Encode/Decode	.002 km ²	0.5
19K10-OSUT: M1A1 Abrams Armor Crewman	KO01, Armor Crewman Test (ACT) I	.002 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KO02, Armor Crewman Test (ACT) II	.002 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	KB02, Conditioning Obstacle Crse (CP1)	.02 km ²	6.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DD03, NBC Defense (NB2)	.02 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DN11, 25MM Automatic Gun and Coax Firing and BFV Driving (Concurrent and Non-Firing Tng)	.02 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH03, Fundamentals of Rifle Marksmanship I (BR2) (Concurrent Tng)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH04, Fundamentals Of Rifle Marksmanship II (BR3) (Concurrent Tng)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH05, Grouping Procedures (BR4) (Concurrent Tng)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH06, Zero an M16A2 Rifle (BR5) (concurrent Tng)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH07, Obtain Downrange Feedback (BR6) (Concurrent Tng)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH08, Field Fire I (Single Timed Targets) (BR7) (Concurrent Tng)	.008 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH09, Field Fire II (Single and Multiple Timed Targets) (BR8) (Concurrent Tng)	.008 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH13, Protective Mask Firing (BR13) (Concurrent Tng)	.008 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Armor School, (cont)			
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH10, Practice Record Fire I & II (Concurrent Tng)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH11, Record Fire (BR11) (Concurrent Tng)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH14, Night Fire (BR14) (Concurrent Tng)	.008 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH15, Night Fire	.008 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH12, Burst Firing Techniques (BR12) (Concurrent Tng)	.008 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DE01, Claymore Mine (Not Including Live Firing Demonstration)	.008 km ²	1.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH34, Engage Targets with a Cal .50 M2 Machine Gun (Concurrent and Non-Firing Tng)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH44, Engage Targets with an M240B Machine Gun (Concurrent And Non-Firing Tng)	.008 km ²	6.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH01, HAND GRENADES (HG1)	.008 km ²	1.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH24, M203 Grenade Launcher Firing (Concurrent and Non-Firing Tng)	.008 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH23, M203 Grenade Launcher	.008 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH25, Operate an M136 (AT-4) Launcher	.008 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH38, Engage Targets with an MK19 (Concurrent And Non-Firing Tng)	.008 km ²	2.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK24, Engage Targets With The M240C Coaxial Machine Gun on a BFV (Concurrent and Non-Firing Tng)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK25, Engage Targets with the 25MM Automatic Gun on a BFV (Concurrent and Non-Firing Tng)	.008 km ²	2.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DE14, Neutralize Booby Traps	.02 km ²	2.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DI05, Individual Tactical Tng (Fire and Movement) (IT5)	.02 km ²	2.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DB10, Rifle Bayonet Tng (Bayonet Qualification Crse) (RB5)	.02 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DB12, Hand To Hand	.008 km ²	3.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DB03, Confidence Obstacle Crse (CC1)	.02 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DB11, Confidence Obstacle Crse	.02 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DE02, Install / Remove the M21 Antitank Mine	.004 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DE03, Install/Remove The M19 Plastic Antitank Mine	.004 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DE04, Install/Remove the M15 Antitank Mine	.004 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DE07, Locate Mines By Probing	.004 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DE08, Neutralize Mines	.004 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DE09, Neutralize Booby Traps	.004 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK23, Drive a HMMWV	5.0 km ²	4.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK09, Drive a BFV	5.0 km ²	3.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK10, Drive a BFV Using Night Vision Equipment	5.0 km ²	1.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Armor School, (cont)			
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DB01, Physical Tng (PT1)	.02 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DR03, Physical Tng	.02 km ²	6.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DR04, APFT	.02 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DD03, NBC Defense (NB2)	.02 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DN15, Use/Maintain M8A1 Alarm System	.008 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DN16, Mark NBC Contaminated Area	.02 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DI06, Individual Tactical Tng (Infiltration Course) (IT6)	.02 km ²	2.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DA02, Drill and Ceremonies (Drill Orientation) (DC1)	.008 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DA03, Drill and Ceremonies (Individual Drill - Stationary Movements) (DC2)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DA04, Drill and Ceremonies (Individual Drill - Marching) (DC3)	.02 km ²	1.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Armor School, (cont)			
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DA05, Drill and Ceremonies (Individual Drill with Weapon) (DC4)	.02 km ²	2.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DA06, Drill and Ceremonies (Squad Drill) (DC5)	.02 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DA07, Drill and Ceremonies (Platoon Drill) (DC6)	.02 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DA08, Drill and Ceremonies (Company Drill) (DC7)	.02 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DA16, Sentry Duties (GD2)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DA17, Inspections (IN1)	.008 km ²	2.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DB06, Rifle Bayonet Tng (Basic Movements) (RB1)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DB07, Rifle Bayonet Tng (Basic Attack Movements) (RB2)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DB08, rifle bayonet Tng (basic defensive movements) (RB3)	.008 km ²	1.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DB09, Rifle Bayonet Tng (Individual Bouts) (RB4)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DO07, Evaluation	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DI07, Individual Tactical Tng (Daytime Defensive Firing) (IT7)	.02 km ²	1.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DI08, Individual Tactical Tng (Nighttime Defensive Firing) (IT8)	.02 km ²	2.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DB13, Tactical Foot Marches	15.0 km ²	6.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DG03, Land Navigation	50.0 km ²	8.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DG07, Dismounted GPS Navigation	10.0 km ²	2.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DN06, Map Reading (Intersection and Resection)	4.0 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DA15, Establish a Bivouac Site (MB1)	.02 km ²	2.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DD05, Exchange MOPP Gear	.02 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DG08, Mounted GPS navigation	100.0 km ²	2.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DI02, Individual Tactical Tng (Camouflage, Cover and Concealment) (IT2)	.02 km ²	1.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DI03, Individual Tactical Tng (Individual Tactical Movements) (IT3)	.02 km ²	3.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DI04, Individual Tactical Tng (Night Offensive Tng) (IT4)	.02 km ²	2.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DI05, Individual Tactical Tng (Fire and Movement) (IT5)	.02 km ²	2.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DJ04, Establish And Occupy an LP/OP	.02 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK09, Drive A BFV (Not Including Driving Crse)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK10, Drive a BFV Using Night Vision Equipment (Not Including Driving Crse)	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK12, Recover a Mired Tracked Vehicle Using Similar Vehicle (S) and Tow Cables	.02 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK13, TOW / TOW Start a BFV	.02 km ²	1.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Armor School, (cont)			
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DM01, STX	50.0 km ²	15.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DN03, Install A Hot Loop	.008 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DN04, Camouflage Equipment	.02 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DN05, Emplace and Recover Pyrotechnic Early Warning Devices	.02 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DN07, Conduct Armor Tactical Navigation	100.0 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DI01, Individual Tactical Tng (Introduction To ITT) (IT1)	.02 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH32, Load/Reduce a Stoppage, Unload and Clear A Cal .50 M2 Machine Gun	.002 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH33, Mount / Dismount a Cal .50 M2 HB Machine Gun on a Vehicle	.002 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH36, Mount/Dismount an MK19 on a HMMWV	.002 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH37, Operate an MK19	.002 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DH45, Mount/Dismount an M240B Machine Gun on a HMMWV	.002 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DJ10, maintain/operate long range advanced scout surveillance system (LRAS3)	.002 km ²	4.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK03, Start/Stop the Engine and Secure a BFV	.002 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK04, Start a BFV Using Auxiliary Power	.002 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK06, Perform Emergency Evacuation Procedures On a BFV	.002 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK07, Extinguish a Fire on a BFV	.002 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK08, Operate the NBC System on a BFV	.002 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK14, Perform PMSCS on the Hull of a BFV	.002 km ²	4.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK15, Stow Ammunition and Equipment on a BFV	.002 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK16, Load/Unload 25MM Ready Boxes on a BFV	.002 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK17, Install/Remove an M240C Machine Gun on a BFV	.002 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK18, Load/Unload a TOW Launcher on a BFV	.002 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK19, Perform Opr Maintenance on a 25MM Automatic Gun	.002 km ²	3.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK20, Load and Unload the M257 Smoke Grenade Launcher on a BFV	.002 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DK22, Perform Opr Maintenance on a HMMWV	.002 km ²	2.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DL01, Reinforcement Tng (SST-I)	.002 km ²	2.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DL02, Reinforcement Tng (SST-II)	.002 km ²	2.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DL03, Reinforcement Tng (SGST)	.002 km ²	2.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DL04, Reinforcement Tng (Cavalry Stakes)	.002 km ²	1.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Armor School, (cont)			
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DN01, Prepare / Operate An AN/VRC-91	.002 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DN08, Evacuate a Wounded Crewman	.002 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DN09, Replace A Thrown Track On A BFV	.002 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DN10, Perform Hull/ Turret Maintenance on a BFV	.002 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DO01, Basic Tng Test I	.008 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DO02, Basic Tng Test II	.008 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DO03, Scout Skills Test I	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DO04, Scout Skills Test II	.008 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DO05, Scout Gunnery Skill Test	.008 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DO06, Cavalry Stakes	.008 km ²	4.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DB02, Conditioning Obstacle Crse (CP1)	.02 km ²	1.5
020-ASIK4: M1A2 TANK CREWMAN	AA09, Drive An M1A2 Tank (Program a Way Point)	10 km ²	1.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
020-ASIK4: M1A2 TANK CREWMAN	AA01, M1A2 Tank Orientation And Safety	.002 km ²	0.5
020-ASIK4: M1A2 TANK CREWMAN	AA02, Prepare/Secure Driver's Station for Operation On An M1A2 Tank	.002 km ²	0.5
020-ASIK4: M1A2 TANK CREWMAN	AA03, Start/Stop the Engine on an M1A2 Tank	.002 km ²	0.5
020-ASIK4: M1A2 TANK CREWMAN	AA06, Troubleshoot Using Driver's Integrated Display on an M1A2 Tank	.002 km ²	1.0
020-ASIK4: M1A2 TANK CREWMAN	AA07, Perform Driver's Before and After Operation Checks and Services	.002 km ²	0.5
020-ASIK4: M1A2 TANK CREWMAN	AA10, Operate the AN/VVS-2 Night Vision Viewer	.002 km ²	0.5
020-ASIK4: M1A2 TANK CREWMAN	AA13, Extinguish a Fire on an M1A2 Tank	.002 km ²	0.5
020-ASIK4: M1A2 TANK CREWMAN	AB01, Reinforcement Tng (ACE)	.002 km ²	0.5
020-ASIK4: M1A2 TANK CREWMAN	ACE, Armor Crewman Examination (ACE)	.002 km ²	0.5
611-63M10: N2/M3A2 Bradley Fighting Vehicle System Maintainer	63M10G01	.08 km ²	1.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Armor School, (cont)			
611-63M10: N2/M3A2 Bradley Fighting Vehicle System Maintainer	63M10G02	.08 km ²	2.0
611-63M10: N2/M3A2 Bradley Fighting Vehicle System Maintainer	63M10H02	.08 km ²	1.0
611-63M10: N2/M3A2 Bradley Fighting Vehicle System Maintainer	63M10H03	.08 km ²	1.5
611-63A30: M1A1 Abrams Tank System Maintainer	63A30F04	1.0 km ²	1.5
611-63A30: M1A1 Abrams Tank System Maintainer	63A30F05	1.0 km ²	1.0
611-63A30: M1A1 Abrams Tank System Maintainer	63A30F01: FTX	1.0 km ²	0.5
611-63A30: M1A1 Abrams Tank System Maintainer	63A30F02: FTX	1.0 km ²	0.5
611-63A30: M1A1 Abrams Tank System Maintainer	63A30F03: FTX	1.0 km ²	0.5
611-63A30: M1A1 Abrams Tank System Maintainer	63A30G01	.008 km ²	3.0
611-63A30: M1A1 Abrams Tank System Maintainer	63A30F06	.00008 km ²	0.5
611-63A10: Abrams Tank System Maintainer	63A10L02	.08 km ²	1.0
611-63A10: Abrams Tank System Maintainer	63A10L03	.08 km ²	1.5
611-63A10: Abrams Tank System Maintainer	63A10M01	.08 km ²	1.0
611-63A10: Abrams Tank System Maintainer	63A10M02	.08 km ²	2.0
611-63M30: M2/3 Bradley Fighting Vehicle System Maintainer	63M30E03	1.0 km ²	1.5
611-63M30: M2/3 Bradley Fighting Vehicle System Maintainer	63M30E05	1.0 km ²	1.0
611-63M30: M2/3 Bradley Fighting Vehicle System Maintainer	63M30E01	1.0 km ²	0.5
611-63M30: M2/3 Bradley Fighting Vehicle System Maintainer	63M30E02	1.0 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
611-63M30: M2/3 Bradley Fighting Vehicle System Maintainer	63M30E03	1.0 km ²	0.5
611-63M30: M2/3 Bradley Fighting Vehicle System Maintainer	63M30F01	.02 km ²	3.0
611-63M30: M2/3 Bradley Fighting Vehicle System Maintainer	63M30E06	.008 km ²	0.5
091-ASIH8: Track Recovery Vehicle Specialist	H8C11A02	.08 km ²	0.5
091-ASIH8: Track Recovery Vehicle Specialist	H8T11B02	.08 km ²	1.0
091-ASIH8: Track Recovery Vehicle Specialist	H8T11B04	.08 km ²	2.0
091-ASIH8: Track Recovery Vehicle Specialist	H8T11B07	.08 km ²	1.0
091-ASIH8: Track Recovery Vehicle Specialist	H8T11B08	.08 km ²	0.5
091-ASIH8: Track Recovery Vehicle Specialist	H8T11B09	.08 km ²	1.0
091-ASIH8: Track Recovery Vehicle Specialist	H8T11B10	.08 km ²	1.5
091-ASIH8: Track Recovery Vehicle Specialist	H8T11B11	.08 km ²	1.0
091-ASIH8: Track Recovery Vehicle Specialist	H8T11B12	.08 km ²	2.0
091-ASIH8: Track Recovery Vehicle Specialist	H8T11B13	.08 km ²	2.0
091-ASIH8: Track Recovery Vehicle Specialist	H8T11B14	.08 km ²	0.5
091-ASIH8: Track Recovery Vehicle Specialist	H8T11B03	.008 km ²	0.5
091-ASIH8: Track Recovery Vehicle Specialist	H8C11A04	.008 km ²	1.0
BASIC COMBAT TNG (BCT)	Gas Chamber	0.02 km ²	1.5
BCT	Hand-to-Hand Combat Pit	0.004 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km ²)	Duration (Days)
Armor School, (cont)			
BCT	Confidence Course	0.03 km ²	0.5
BCT	Employment of Mines	0.03 km ²	1.0
BCT	NBC Proficiency Area	0.02 km ²	1.0
BCT	Physical Readiness Tng	0.02 km ²	7.0
BCT	Introduction	0.02 km ²	0.5
BCT	Basic Attack Movement	0.02 km ²	0.5
BCT	Defensive Movement	0.02 km ²	0.5
BCT	One-on-One Bouts	0.02 km ²	0.5
BCT	Assault Course	0.02 km ²	0.5
BCT	Confidence Tower	0.02 km ²	1.0
BCT	Bivouac Area	0.07 km ²	0.5
BCT	March Route (Tactical Foot)	3.0 km ²	0.5
BCT	March Route (Tactical Foot)	5.0 km ²	0.5
BCT	March Route (Tactical Foot)	8.0 km ²	0.5
BCT	March Route (Tactical Foot)	10.0 km ²	0.5
BCT	March Route (Tactical Foot)	10.0 km ²	0.5
BCT	March Route (Tactical Foot)	15.0 km ²	1.0
BCT	Basic Map Reading	1.12 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Armor School, (cont)			
BCT	Introduction to Individual Tactical Tng	0.07 km ²	1.0
BCT	Employ Camouflage, Cover, and Concealment	TBD	TBD
BCT	Field Tng Exercise	0.07 km ²	14.0
BCT	Conditioning Exercise Course	0.07 km ²	0.5
BCT	Serve as member of a Team	TBD	1.0
BCT	BRM and Rifle Qualification (Concurrent Tng)	.008 km ²	10.0
020-1-19K30 (M1A1) BNCOC	Tank Gunnery	18.0 km ²	2
020-1-19K30 (M1A1) BNCOC	STX	110.0 km ²	3
020-1-19K30 (M1A1) BNCOC	STX/FTX	15.58 km ²	3
020-1-19K30 (M1A1) BNCOC	APFT	.0002 km ²	.25
020-1-19K30 (M1A1) BNCOC	Physical Fitness	.0002 km ²	1
020-1-19K30 (M1A1) BNCOC	STX/FTX	.005 km ²	.25
020-19K30 (M1A2/SEP) BNCOC	Tank Gunnery	18.0 km ²	2
020-19K30 (M1A2/SEP) BNCOC	STX	110.0 km ²	3
020-19K30 (M1A2/SEP) BNCOC	FTX	1.0 km ²	3
020-19K30 (M1A2/SEP) BNCOC	APFT	.0002 km ²	.25
020-19K30 (M1A2/SEP) BNCOC	Physical Fitness	.0002 km ²	1
020-19K30 (M1A2/SEP) BNCOC	STX/FTX	.005 km ²	.25
020-19K40 ANCOC	APFT	.0002 km ²	.25
020-19K40 ANCOC	Physical Fitness	.0002 km ²	1.5
250-19D30 ANCOC	STX	200 km ²	3.5
250-19D30 ANCOC	STX/FTX	15.58 km ²	3.5
Primary Leadership Development	STX/FTX	2.0 km ²	13.0
Primary Leadership Development		2.0 km ²	1.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Aviation School, Fort Rucker			
Initial Entry Rotary Wing (IERW) Aviator (Common Core)	Aviator Tng	17,700 km ²	See Note
IERW Aviator (UH-1)	Aviator Tng	17,700 km ²	See Note
IERW Aviator (OH-58)	Aviator Tng	17,700 km ²	See Note
Rotary Wing ISTR IP Methods of Instruction (MOI) (TH-67)	Aviator Tng	17,700 km ²	See Note
Rotary Wing Aviator Refresher Training	Aviator Tng	17,700 km ²	See Note
Rotary Wing Qualification	Aviator Tng	17,700 km ²	See Note
Primary IP/MOI (Civilian Contractor)	Aviator Tng	17,700 km ²	See Note
AH-64 Aviator Qualification	Aviator Tng	2,560 km ²	See Note
AH-64 Instructor Pilot	Aviator Tng	2,560 km ²	See Note
AH-64 Instructor Pilot MOI	Aviator Tng	2,560 km ²	See Note
AH-47D Aviator Qualification	Aviator Tng	3,844 km ²	See Note
AH-47D Instructor Pilot	Aviator Tng	3,844 km ²	See Note
AH-47D Instructor Pilot MOI	Aviator Tng	3,844 km ²	See Note
OH-58 A/C Instructor Pilot	Aviator Tng	17,700 km ²	See Note
OH-58 Aeroscout NVD IP MOI (IERW)	Aviator Tng	17,700 km ²	See Note
OH-58 Aeroscout IP MOI (IERW)	Aviator Tng	17,700 km ²	See Note
OH-58D Warrior Aviator Qualification	Aviator Tng	6,147 km ²	See Note
OH-58D Warrior Instructor Pilot	Aviator Tng	6,147 km ²	See Note
OH-58D Warrior Instructor Pilot MOI	Aviator Tng	6,147 km ²	See Note
UH-1 Method of Instruction Course	Aviator Tng	17,700 km ²	See Note
UH-1 N/NVG Instructor Pilot MOI	Aviator Tng	17,700 km ²	See Note
UH-1 Instructor Pilot	Aviator Tng	17,700 km ²	See Note
UH-1 NVG Instructor Pilot	Aviator Tng	17,700 km ²	See Note
UH-1 Qualification (FMT)	Aviator Tng	17,700 km ²	See Note
UH-1 NOE Qualification (FMT)	Aviator Tng	17,700 km ²	See Note
UH-1 NVG Qualification (FMT)	Aviator Tng	17,700 km ²	See Note
UH-60 Aviator Qualification	Aviator Tng	17,700 km ²	See Note
UH-60 Instructor Pilot	Aviator Tng	17,700 km ²	See Note
UH-60 Instructor Pilot MOI (Grad)	Aviator Tng	17,700 km ²	See Note
AH-64 Maintenance Test Pilot	Aviator Tng	3,844 km ²	See Note
UH-1 Maintenance Test Pilot	Aviator Tng	3,844 km ²	See Note
UH-60 Maintenance Test Pilot	Aviator Tng	3,844 km ²	See Note
CH-47D Maintenance Test Pilot	Aviator Tng	3,844 km ²	See Note
OH-58 A/C Maintenance Test Pilot	Aviator Tng	3,844 km ²	See Note
OH-58D Warrior Maintenance Test Pilot	Aviator Tng	3,844 km ²	See Note
Fixed Wing Multi-Engine Qualification	Aviator Tng	76,800 km ²	See Note
Fixed Wing Multi-Engine IP	Aviator Tng	76,800 km ²	See Note
Fixed Wing Multi-Engine MOI	Aviator Tng	76,800 km ²	See Note
C-12 Aviator Qualification	Aviator Tng	76,800 km ²	See Note

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Aviation School, (cont)			
Spanish-Initial Entry Rotary Wing	Aviator Tng	17,700 km ²	See Note
Spanish-Rotary Wing Qualification (UH-1)	Aviator Tng	17,700 km ²	See Note
Spanish-Aviator (UH-1)(Transition)	Aviator Tng	17,700 km ²	See Note
Spanish-NVG Qualification (UH-1)	Aviator Tng	17,700 km ²	See Note
Spanish-Instructor Pilot (UH-1)	Aviator Tng	17,700 km ²	See Note
Spanish-Aviator (UH-60)(Transition)	Aviator Tng	17,700 km ²	See Note
Spanish-NVG IP(UH-1)	Aviator Tng	17,700 km ²	See Note
Spanish-UH-60 NVG Qualification	Aviator Tng	17,700 km ²	See Note
Spanish-UH-1 Maintenance Manager	Aviator Tng	No Aircraft Flight	See Note
Spanish-UH-1 Test Pilot	Aviator Tng	17,700 km ²	See Note
EURO-NATO Aviator Common Core (IERW)	Aviator Tng	17,700 km ²	See Note
EURO-NATO Aviator UH-1 Track (IERW)	Aviator Tng	17,700 km ²	See Note
EURO-NATO Advanced Combat Skills	Aviator Tng	17,700 km ²	See Note
EURO-NATO Advanced IFR (UH-1)	Aviator Tng	76,800 km ²	See Note
EURO-NATO Night Unaided	Aviator Tng	17,700 km ²	See Note
Rotary Wing Instrument (Non-US)* *Training conducted only at Fort Rucker	Aviator Tng	76,800 km ²	See Note
Rotary Wing Instrument (German)* *Training conducted only at Fort Rucker	Aviator Tng	76,800 km ²	See Note
Note: Corresponds to course length. Course length may vary due to weather, equipment availability, and other reasons.			
Basic Training at Fort Jackson, South Carolina			
See The Infantry School input for Requirements for Basic Training	USAIS is the Proponent for BCT		
Basic Training at Fort Leonard Wood			
See The Infantry School input for Requirements for Basic Training	USAIS is the Proponent for BCT		
CASCOM, Fort Lee			
491-77L10 Petroleum Laboratory Specialist AIT	POL Tng	0.02 km ²	5.0
491-77L10 Petroleum Laboratory Specialist AIT	"LOG WARRIOR"	0.03 km ²	3.0
491-77L30 Petroleum Laboratory Specialist BNCOC	POL Tng	0.02 km ²	1.5
491-77L30 Petroleum Laboratory Specialist BNCOC	"LOG WARRIOR"	0.03 km ²	4.5
821-77F10 Petroleum Supply Specialist AIT	POL Tng	0.02 km ²	3.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
CASCOM, (cont)			
821-77F10 Petroleum Supply Specialist AIT	"LOG WARRIOR"	0.03 km ²	3.0
821-77F30 Petroleum Supply Specialist BNCOC	POL Tng	0.02 km ²	7.5
821-77F30 Petroleum Supply Specialist BNCOC	"LOG WARRIOR"	0.03 km ²	4.5
8-77-C42 Petroleum And Water Specialist ANCOC	Water Supply Tng	0.02 km ²	1.0
8-77-C42 Petroleum And Water Specialist ANCOC	POL Tng	0.02 km ²	2.0
8-77-C42 Petroleum And Water Specialist ANCOC	"LOG WARRIOR"	0.03 km ²	7.0
720-77W10 Water Treatment Specialist AIT	Water Supply Tng	0.02 km ²	40.0
720-77W10 Water Treatment Specialist AIT	"LOG WARRIOR"	0.03 km ²	3.0
720-77W30 Water Treatment Specialist BNCOC	Water Supply Tng	0.02 km ²	21.0
720-77W30 Water Treatment Specialist BNCOC	"LOG WARRIOR"	0.03 km ²	4.5
8B-92F Petroleum Officers Course	Water Supply Tng	0.02 km ²	1.5
8B-92F Petroleum Officers Course	POL Tng	0.02 km ²	4.5
821-1391 (OS) Bulk Fuel Specialist (USMC)	POL Tng	0.02 km ²	17.5
492-92M10 Mortuary Affairs Specialist	Land Nav	0.08 km ²	1.5
492-92M10 Mortuary Affairs Specialist	MA Tng	0.07 km ²	2.0
492-92M10 Mortuary Affairs Specialist:	"LOG WARRIOR"	0.03 km ²	3.0
492-92M30 Mortuary Affairs Specialist BNCOC	MA Tng	0.07 km ²	1.5
492-92M30 Mortuary Affairs Specialist BNCOC	"LOG WARRIOR"	0.03 km ²	4.5
492-92M40 Mortuary Affairs Specialist ANCOC	QM Tng	0.03 km ²	3.0
492-92M40 Mortuary Affairs Specialist ANCOC	MA Tng	0.07 km ²	1.5
492-92M40 Mortuary Affairs Specialist ANCOC	"LOG WARRIOR"	0.03 km ²	4.5
8B-S14V Mortuary Affairs Officer Crse	MA Tng	0.07 km ²	0.5
492-F1 Joint Mortuary Affairs Senior NCO Crse	MA Tng	0.07 km ²	1.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
CASCOM, (cont)			
551-92A10 Automated Logistics Specialist AIT	"LOG WARRIOR"	0.03 km ²	3.0
551-92A30 Automated Logistics Specialist BNCOC	"LOG WARRIOR"	0.03 km ²	4.5
551-92A40 Automated Logistics Specialist ANCOC	"LOG WARRIOR"	0.03 km ²	4.5
552-92Y10 Unit Supply Specialist AIT	"LOG WARRIOR"	0.03 km ²	3.0
552-92Y30 Unit Supply Specialist BNCOC	"LOG WARRIOR"	0.03 km ²	4.5
552-92Y40 Unit Supply Specialist ANCOC	"LOG WARRIOR"	0.03 km ²	4.5
8-10-C20-92A Quartermaster Officer Basic	FTX	0.03 km ²	8.5
8-10-C20-92A Quartermaster Officer Basic	POL Tng	0.02 km ²	4.5
8-10-C20-92A Quartermaster Officer Basic	Wtr Tng	0.02 km ²	2.0
8B-920A Property Accounting Tech WOBC	POL Tng	0.02 km ²	0.5
8B-920A Supply Systems Tech WOBC	POL Tng	0.02 km ²	0.5
8B-92A/B Supply and Services	POL Tng	0.02 km ²	0.5
8B-920A/B Management	Wtr Tng	0.02 km ²	0.5
8-10-C22 (LOG) Combined Logistics Officer Advance (LOG)	POL Tng	0.02 km ²	0.5
8-10-C22 (LOG) Combined Logistics Officer Advance (LOG)	Wtr Tng	0.02 km ²	0.5
760-43M10 Fabric Repair Specialist	"LOG WARRIOR"	0.03 km ²	3.0
840-57E10 Laundry and Shower Specialist	"LOG WARRIOR"	0.03 km ²	3.0
840-57E/43M30 Laundry and Shower Spec BNCOC	"LOG WARRIOR"	0.03 km ²	4.5
840-57E/43M40 Laundry and Shower Spec ANCOC	"LOG WARRIOR"	0.03 km ²	4.5
860-92R1P Parachute Rigger	Student Jump	0.89 km ²	3.5
860-92R1P Parachute Rigger	"LOG WARRIOR"	0.02 km ²	3.0
860-92R3P Parachute Rigger BNCOC	PMCS Fld Tng Site/B-Drill	0.02 km ²	3.5
860-92R3P Parachute Rigger BNCOC	"LOG WARRIOR"	0.02 km ²	4.5
860-92R4P Parachute Rigger ANCOC	SINCGARS GPS TAC Road Mar	0.02 km ²	4.0
860-92R4P Parachute Rigger ANCOC	"LOG WARRIOR"	0.02 km ²	4.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
CASCOM, (cont)			
4N921A Airdrop Sys Tech WO	Student Jump AIRDROP EX	0.89 km ²	1.0
8B-92D Aerial Delivery & Material Opns	Student Jump AIRDROP EX	0.89 km ²	3.0
860-F4 Sling Load Insp Certification	DZ SLING LOAD OPS/EXAM	0.45 km ²	2.0
101-Q-0001-TSP Sling Load Opn TTT	Air Drop TEAC Slingload Ops	0.45 km ²	1.0
8-10-C32-921A Ad Sys Tech WO	Student Jump	0.45 km ²	1.0
800-92G10 Food Service Specialist AIT	"LOG WARRIOR"	0.03 km ²	0.5
800-92G30 Food Service Specialist BNCOC	"LOG WARRIOR"	0.03 km ²	5.5
800-92G40 Food Service Specialist ANCOC	"LOG WARRIOR"	0.03 km ²	4.5
800-F18 (OS) SNCO Food Service (USMC)	FTX	0.02 km ²	4.0
800-F19 (OS) SNCO Food Service	FTX	0.02 km ²	9.0
800-F20-RC (OS) Fld Food Service-RC (USMC)	FTX	0.02 km ²	12.0
Chaplain School, Fort Jackson			
Chaplain Officers' Advanced Course	Officer Tng	3 km ²	4.0
Chaplain's Assistant BNCOC	NCO Tng	3 km ²	2.0
Chemical School (MANSCEN) Fort Leonard Wood			
Chemical Operations Specialist [54]	NBC Tng	6 km ²	8.0
Officer Instruction	NBC Tng	18 km ²	6.0
Non-commissioned Officer Education System (NCOES)	NBC Tng	18 km ²	12.0
NBC Reconnaissance Specialist	FTX	18 km ²	3.0
Biological Integrated Detection Specialist	FTX	18 km ²	3.0
WMD Installation Emergency Responder	FTX	0.5 km ²	1.0
WMD Civil Support Team	FTX	1.0 km ²	2.0
Engineer School (MANSCEN), Fort Leonard Wood			
Engineer Diver [00B]	MOS Skills Tng	10 km ²	48.0
Combat Engineer [12B]	MOS Skills Tng	18 km ²	30.0
Bridge Crew Member [12C]	MOS Skills Tng	8 km ²	30.0
Carpentry/Masonry Specialist [51B]	MOS Skills Tng	6 km ²	30.0
Plumber [51K]	MOS Skills Tng	6 km ²	30.0
Firefighter [51M]	MOS Skills Tng	12 km ²	42.0
Electrician [51R]	MOS Skills Tng	6 km ²	30.0
Technical Engineer Specialist [51T]	MOS Skills Tng	6 km ²	30.0
Utilities equipment Repair [52C]	MOS Skills Tng	6 km ²	30.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Engineer School, (cont)			
Power Generation Equipment Repair [52D]	MOS Skills Tng	6 km ²	30.0
Construction Equipment Repair [62B]	MOS Skills Tng	4 km ²	30.0
Heavy Construction Equipment Operator [62E]	MOS Skills Tng	16 km ²	36.0
Crane Operator [62F]	MOS Skills Tng	16 km ²	36.0
Quarry Specialist [62G]	MOS Skills Tng	12 km ²	36.0
Concrete Asphalt Equipment Operator [62H]	MOS Skills Tng	10 km ²	30.0
General Construction Equipment Operator [62J]	MOS Skills Tng	16 km ²	30.0
Basic Topographic Analyst [81T]	MOS Skills Tng	6 km ²	30.0
Basic Topographic Surveyor [82D]	MOS Skills Tng	16 km ²	36.0
Non-commissioned Officer Education System (NCOES)	MOS Skills Tng	18 km ²	10.0
Field Artillery School, Fort Sill			
Cannon Crew Member [13B10]	Ammo Test	5.0 km ²	1.0
Cannon Crew Member [13B10]	FTX	5.0 km ²	4.0
Cannon Section Chief [13B30] (BNCOC)	STX	25.0 km ²	3.0
Field Artillery Platoon Sergeant [13B40]	STX	25.0 km ²	3.0
Auto Fire Support Systems [13C30] (BNCOC)	STX	25.0 km ²	3.0
Auto Fire Support Systems [13C40] (ANCOC)	STX	25.0 km ²	3.0
Cannon Fire Direction Section Chief [13E30] (BNCOC)	STX	25.0 km ²	3.0
MLRS Crewman [13P10]	FTX	12.0 km ²	3.0
MLRS Fire Direction [13P30] (BNCOC)	STX	25.0 km ²	3.0
MLRS Fire Direction Senior Sergeant [13P40] (BNCOC) STX	STX	5.0 km ²	3.0
Finance School (Soldier Support Institute), Fort Jackson			
73C10 Finance Specialist	FTX	12 km ²	4
73D10 Accounting Specialist	FTX	12 km ²	4
FI Officer Basic Course	FTX	12 km ²	10
FI Captain Career Course	FTX	12 km ²	10
Infantry School, Fort Benning			
Sniper Course	Escape and Evasion	0.04 km ²	0.5
Sniper Course	FTX	101 km ²	3.0
Bradley Master Gunner's Course	Bivouac	6.00 km ²	6.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Infantry School, (cont)			
Bradley Master Gunner's Course	Army Physical Fitness Test (APFT)	0.40 km ²	0.5
Infantry Officer Basic Course (IOBC)	Leadership Reaction Course (LRC)	0.04 km ²	0.5
IOBC	Land Nav STX	16 km ²	8.5
IOBC	Terrain Association Orienteering	7.5 km ²	0.5
IOBC	Map Reading Land Navigation Examination	10.5 km ²	1.0
IOBC	Drill Training	26.6 km ²	2.5
IOBC	Land Navigation Retraining	7.5 km ²	1.0
IOBC	Map Reading and Land Navigation Retest	12.3 km ²	1.5
IOBC	Squad STX	TBD	15.0
IOBC	Platoon STX	50.3 km ²	13.5
IOBC	Advanced Land Navigation	43.1 km ²	2.5
IOBC	Advanced Land Navigation Retest	43.1 km ²	2.5
IOBC	Defensive STX	46.5 km ²	9.5
IOBC	Offensive TEWT	37.6 km ²	1.0
IOBC	Advanced Land Navigation II Examination	39.4 km ²	4.0
IOBC	Platoon Attack STX	40.0 km ²	13.0
IOBC	Company FTX	64.8 km ²	10.0
Infantry Captains Career Course (ICCC)	Orienteering Examination	18.3 km ²	2.0
ICCC	Light Infantry Company Attack TEWT	13.3 km ²	0.5
ICCC	CALFEX	0.86 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Infantry School, (cont)			
ICCC	Light Infantry Battalion Defense TEWT	13.3 km ²	0.5
ICCC	Mechanized Company Team Attack TEWT	33.6 km ²	0.5
Officer Candidate School (OCS)	Confidence Course	TBD	1.0
OCS	Leadership Reaction Course	1.25 km ²	0.5
OCS	Land Navigation Train-up	0.12 km ²	6.0
OCS	Land Navigation Terrain Association	6.51 km ²	1.5
OCS	Field Leadership Exercise 1	10.7 km ²	13.5
OCS	Terrain Association Extended Distance DAY	10.7 km ²	1.0
OCS	Land Navigation Terrain Association	6.51 km ²	1.0
OCS	Land Navigation Field Exercise	6.51 km ²	0.5
OCS	Terrain Association Extended Distance NIGHT	10.7 km ²	0.5
OCS	Advanced Land Navigation	6.51 km ²	0.5
OCS	Land Navigation Reinforcement	10.7 km ²	1.0
OCS	Map Reading Land Navigation Examination	10.7 km ²	1.0
OCS	Terrain Association Reinforcement	10.7 km ²	1.0
OCS	Map Reading Land Navigation Retest	10.7 km ²	1.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Infantry School, (cont)			
OCS	Squad Stakes	0.12 km ²	1.0
OCS	Squad STX	TBD	4.0
OCS	Squad Tactical Reaction Assessment	TBD	9.0
OCS I	Field Leadership Exercise I	25.8 km ²	18.5
Long Range Surveillance Leader (LRSL)	Infiltration/Exfiltration	23.2 km ²	2.5
LRSL	Survival	23.2 km ²	3.0
LRSL	Subsurface Hide Site	6.5 km ²	1.0
LRSL	CWST/APFT	1.2 km ²	0.5
LRSL	STX	34.6 km ²	12.0
LRSL	Communications Exercise (COMMEX)	6.5 km ²	1.5
LRSL	FTX	34.6 km ²	22.5
LRSL	Land Navigation Re-Test	30.3 km ²	1.5
LRSL	Land Navigation Examination	30.3 km ²	1.5
LRSL	Commo Procedures	30.3 km ²	1.0
LRSL	FRIES/SPIES	6.5 km ²	0.5
LRSL	Battle Drills	6.5 km ²	0.5
Long Range Surveillance Leader-Reserve (LRSL-R)	STX	34.2 km ²	12.0
LRSL-R	Land Navigation Re-Test	30.3 km ²	1.5
LRSL-R	Land Navigation Exam	30.3 km ²	1.5
LRSL-R	FRIES/SPIES	6.5 km ²	0.5
LRSL-R	Battle Drills	6.5 km ²	0.5
Jumpmaster	Actions in Aircraft Examination	2.61 km ²	3.0
Bradley Fighting Vehicle Leader (BFV-Ldr)	Drive/Swim the M2	1.2 km ²	1.0
BFV-Ldr	Defensive TEWT	14 km ²	0.5
BFV-Ldr	Offensive TEWT	14 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Infantry School, (cont)			
BFV-Ldr	FTX- Precision Lightweight GPS Receiver (PLGR) Training	27 km ²	7.5
BFV-Ldr	Driver Thermal Viewer	1.2 km ²	0.5
Infantry Mortar Leader	FTX	0.15 km ²	3.0
Infantry Mortar Leader	Maintenance	0.15 km ²	1.0
Infantry Mortar Leader	Mech Training	0.15 km ²	3.5
Infantry Mortar Leader	Mech Training Examination	0.15 km ²	0.5
Airborne	Physical Proficiency Test Area	0.04 km ²	1.0
Airborne	Orientation	0.04 km ²	0.5
Airborne	Mock Door	0.04 km ²	1.0
Airborne	34FT Mock Tower	0.04 km ²	1.5
Airborne	Methods of Recovery	0.04 km ²	1.0
Airborne	Parachute Landing Falls	0.04 km ²	2.5
Airborne	Mock Door	0.40 km ²	1.0
Airborne	34FT Mock Tower	0.40 km ²	1.5
Airborne	Suspended Harness	0.40 km ²	1.0
Airborne	Swing Landing Training	0.40 km ²	2.5
Airborne	250FT Free Tower	0.40 km ²	2.0
Airborne	Physical Proficiency Test Area	0.40 km ²	0.5
Airborne	Parachute Jumps	2.61 km ²	7.5
Airborne	Graduation	0.40 km ²	0.5
Pathfinder	Airborne Refresher	0.40 km ²	0.5
Pathfinder	Training Area	22.6 km ²	7.5
Pathfinder	Sling Load Operations	5.18 km ²	3.0
Pathfinder	PZ/LZ Operations	22.6 km ²	4.5
Pathfinder	Drop Zone	22.6 km ²	7.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Infantry School, (cont)			
RANGER	Demolitions	4.4 km ²	0.5
RANGER	Ranger in Action	1.2 km ²	0.5
RANGER	Combat Water Survival Test	1.2 km ²	0.5
RANGER	Cadre-led Ambush/Raid	7.3 km ²	3.0
RANGER	Cadre-led Graded Ambush	29.8 km ²	3.0
RANGER	Cadre-led Raid	29.8 km ²	6.0
RANGER	Student-led Graded Ambush Antiarmor	TBD	TBD
RANGER	Ambush and Recon	54.8 km ²	9.0
RANGER	Student-led Graded Raid	31.8 km ²	9.0
RANGER	Fundamentals of Patrolling	4.4 km ²	7.0
RANGER	Airborne Refresher	0.40 km ²	1.0
RANGER	Operation Anzio	2.6 km ²	1.0
RANGER	Platoon Technique Training	31.8 km ²	3.0
RANGER	Combatives	2.5 km ²	1.5
RANGER	Ranger Runs	3.5 Miles	1.0
RANGER	Rifle Bayonet Training	4.1 km ²	2.0.
RANGER	APFT	2.49 km ²	0.5
RANGER	Water Confidence Test	1.19 km ²	0.5
RANGER	Darby Queen	1.0 km ²	1.0
RANGER	Foot March	16 Miles	1.5
RANGER	Terrain Association	18.0 km ²	1.0
RANGER	Basic Map Reading	18.0 km ²	0.5
RANGER	Land Navigation Examination	29.0 km ²	1.0
RANGER	Land Navigation Re-examination	29.0 km ²	1.0
RANGER	Graduation Rehearsal	1.19 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Infantry School, (cont)			
RANGER	Graduation	1.19 km ²	0.5
Basic Combat Training (BCT)	Gas Chamber	0.02 km ²	1.5
BCT	Hand-to-Hand Combat Pit	0.004 km ²	0.5
BCT	Confidence Course	0.03 km ²	0.5
BCT	Employment of Mines	0.03 km ²	1.0
BCT	NBC Proficiency Area	0.02 km ²	1.0
BCT	Physical Readiness Training	0.02 km ²	7.0
BCT	Introduction	0.02 km ²	0.5
BCT	Basic Attack Movement	0.02 km ²	0.5
BCT	Defensive Movement	0.02 km ²	0.5
BCT	One-on-One Bouts	0.02 km ²	0.5
BCT	Assault Course	0.02 km ²	0.5
BCT	Confidence Tower	0.02 km ²	1.0
BCT	Bivouac Area	0.07 km ²	0.5
BCT	March Route (Tactical Foot)	3.0 km ²	0.5
BCT	March Route (Tactical Foot)	5.0 km ²	0.5
BCT	March Route (Tactical Foot)	8.0 km ²	0.5
BCT	March Route (Tactical Foot)	10.0 km ²	0.5
BCT	March Route (Tactical Foot)	10.0 km ²	0.5
BCT	March Route (Tactical Foot)	15.0 km ²	1.0
BCT	Basic Map Reading	1.12 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Infantry School, (cont)			
BCT	Introduction to Individual Tactical Training	0.07 km ²	1.0
BCT	Employ Camouflage, Cover, and Concealment	TBD	TBD
BCT	Field Training Exercise	0.07 km ²	14.0
BCT	Conditioning Exercise Course	0.07 km ²	0.5
BCT	Serve as member of a Team	TBD	1.0
Infantryman--One Station Unit Training (Inf -OSUT)	Phase #1 Test	0.02 km ²	1.0
Inf -OSUT	Phase #2 Test	0.02 km ²	1.0
Inf -OSUT	Gas Chamber	0.02 km ²	1.0
Inf -OSUT	Battle Drill	0.02 km ²	3.0
Inf -OSUT	Hand-to-Hand Pit	0.004 km ²	0.5
Inf -OSUT	Hand-to-Hand Pit	0.004 km ²	0.5
Inf -OSUT	Hand-to-Hand Pit	0.004 km ²	0.5
Inf -OSUT	Hand-to-Hand Pit	0.004 km ²	0.5
Inf -OSUT	Hand-to-Hand Pit	0.004 km ²	0.5
Inf -OSUT	Confidence Course	0.03 km ²	0.5
Inf -OSUT	Employment of Mines	0.03 km ²	1.0
Inf -OSUT	Physical Readiness Training	0.03 km ²	1.5
Inf -OSUT	Physical Readiness Training	0.03 km ²	1.5
Inf -OSUT	NBC Proficiency Area	0.02 km ²	1.0
Inf -OSUT	Basic Tower Rappelling	0.004 km ²	1.0
Inf -OSUT	Physical Readiness Training	0.02 km ²	7.0
Inf -OSUT	Drill Orientation	0.02 km ²	0.5
Inf -OSUT	Company Drill Review	0.02 km ²	0.5
Inf -OSUT	Individual Drill Stationary	0.02 km ²	0.5
Inf -OSUT	Individual Drill Marching	0.02 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Infantry School, (cont)			
Inf –OSUT	Individual Drill with Weapons	0.02 km ²	0.5
Inf –OSUT	Squad Drill	0.02 km ²	0.5
Inf –OSUT	Platoon Drill	0.02 km ²	0.5
Inf –OSUT	Company Drill	0.02 km ²	0.5
Inf –OSUT	Platoon Drill Evaluation	0.02 km ²	0.5
Inf –OSUT	Individual/Squad/Platoon Drill Review	0.02 km ²	0.5
Inf –OSUT	Sentry Duties	0.02 km ²	0.5
Inf –OSUT	Physical Readiness Training	0.02 km ²	7.0
Inf –OSUT	Introduction	0.02 km ²	0.5
Inf –OSUT	Basic Attack Movement	0.02 km ²	0.5
Inf –OSUT	Defensive Movement	0.02 km ²	0.5
Inf –OSUT	One-on-One Bouts	0.02 km ²	0.5
Inf –OSUT	Review	0.02 km ²	0.5
Inf –OSUT	Military Courtesies and Customs	0.03 km ²	0.5
Inf –OSUT	Basic Rapelling Tower	0.02 km ²	1.0
Inf –OSUT	Bivouac Area	0.07 km ²	0.5
Inf –OSUT	March Route (Tactical Foot)	4.0 km ²	0.5
Inf –OSUT	March Route (Tactical Foot)	8.0 km ²	0.5
Inf –OSUT	March Route (Tactical Foot)	10.0 km ²	0.5
Inf –OSUT	March Route (Tactical Foot)	12.0 km ²	0.5
Inf –OSUT	March Route (Tactical Foot)	16.0 km ²	0.5
Inf –OSUT	March Route (Tactical Foot)	20.0 km ²	1.0
Inf –OSUT	March Route (Tactical Foot)	25.0 km ²	1.0
Inf –OSUT	March Route (Tactical Foot)	30.0 km ²	1.0
Inf –OSUT	Basic Map Reading	0.18 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Infantry School, (cont)			
Inf –OSUT	Fundamentals of Marksmanship	0.07 km ²	2.0
Inf –OSUT	Indiv Tactical Movement/ Camouflage, Cover, Concealment	0.07 km ²	1.0
Inf –OSUT	Night Offensive Training	0.07 km ²	0.5
Inf –OSUT	Member of Squad in Defensive Operations	0.07 km ²	1.5
Inf –OSUT	Field Training Exercise 11B	0.07 km ²	14.0
Inf –OSUT	Conditioning Obstacle Course	0.07 km ²	0.5
Inf –OSUT	Conditioning Obstacle Course	0.07 km ²	0.5
Dragon Gunner	Physical Readiness Training	0.02 km ²	1.0
Indirect Fire Infantryman	Physical Readiness Training	0.02 km ²	1.5
Indirect Fire Infantryman	120mm Mortar Familiarization	0.10 km ²	2.0
Inf –OSUT	Review	0.02 km ²	0.5
OSUT	Hvy Antiarmor Wpns Infantryman Physical Readiness Training	0.02 km ²	1.5
OSUT	Hvy Antiarmor Wpns Infantryman Antiarmor Tracking Non-fire	0.47 km ²	1.0
OSUT-BFV Infantryman	Drive the BFV	3.78 km ²	2.0
OSUT-BFV Infantryman	Refueling the BFV	3.78 km ²	0.5
OSUT-BFV Infantryman	Using Visual Signals to control the BFV	3.78 km ²	0.5
OSUT-BFV Infantryman	Combat Drive the BFV	3.78 km ²	0.5
OSUT-BFV Infantryman	Dismount the BFV	3.78 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Infantry School, (cont)			
OSUT-BFV Infantryman	Swim the BFV	1.19 km ²	1.0
Master Fitness Trainer Course	Physical Proficiency Test Area	0.40 km ²	0.5
Master Fitness Trainer Course	Physical Proficiency Test Area	0.40 km ²	0.5
Master Fitness Trainer Course	Physical Proficiency Test Area	0.40 km ²	0.5
Master Fitness Trainer Course	Physical Proficiency Test Area	0.40 km ²	0.5
Master Fitness Trainer Course	Physical Proficiency Test Area	0.40 km ²	0.5
Master Fitness Trainer Course	440-Yd Track	0.004 km ²	0.5
Infantryman ANCOC	Land Navigation	6.48 km ²	1.0
Infantryman ANCOC	Land Navigation Examination Retest	6.48 km ²	1.0
Infantryman ANCOC	Land Navigation Examination	6.48 km ²	1.0
Infantryman ANCOC	STX	40.5 km ²	9.5
Infantryman ANCOC	TEWT	4.05 km ²	2.0
Infantryman ANCOC	Machine Guns	0.40 km ²	1.0
Infantryman ANCOC	Patrolling	40.5 km ²	3.5
Infantryman ANCOC	Demolitions	TBD	1.0
Indirect Fire Infantryman ANCOC	Land Navigation	6.48 km ²	1.0
Indirect Fire Infantryman ANCOC	Land Navigation Retest	6.48 km ²	1.0
Indirect Fire Infantryman ANCOC	Land Navigation Examination	6.48 km ²	1.0
Indirect Fire Infantryman ANCOC	STX	40.5 km ²	9.5
Indirect Fire Infantryman ANCOC	TEWT	2.02 km ²	1.0
Heavy Antiarmor Weapons Infantryman ANCOC	Land Navigation	6.48 km ²	1.0
Heavy Antiarmor Weapons Infantryman ANCOC	Land Navigation Retest	6.48 km ²	1.0
Heavy Antiarmor Weapons Infantryman ANCOC	Land Navigation Exam	6.48 km ²	1.0
Heavy Antiarmor Weapons Infantryman ANCOC	STX	40.5 km ²	9.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Infantry School, (cont)			
Heavy Antiarmor Weapons Infantryman ANCOC	TEWT	4.04 km ²	4.0
BFV-Infantryman ANCOC	Land Navigation	6.48 km ²	1.0
BFV-Infantryman	ANCOC Land Navigation Examination Retest	6.48 km ²	1.0
BFV-Infantryman ANCOC	Land Navigation Examination	6.48 km ²	1.0
BFV-Infantryman ANCOC	STX	40.5 km ²	9.5
BFV-Infantryman ANCOC	Patrolling	0.32 km ²	3.0
BFV-Infantryman ANCOC	Demolitions	TBD	1.0
Infantryman-BNCOC	PLGR	6.48 km ²	0.5
Infantryman-BNCOC	Land Navigation	6.48 km ²	1.0
Infantryman-BNCOC	Land Navigation Exam Day	6.48 km ²	0.5
Infantryman-BNCOC	Land Navigation Retest	6.48 km ²	0.5
Infantryman-BNCOC	Demolitions	0.07 km ²	1.0
Infantryman-BNCOC	Tactics	32.4 km ²	4.5
Infantryman-BNCOC	Patrolling	32.4 km ²	1.5
Infantryman-BNCOC	STX	32.4 km ²	10.5
Indirect Fire Infantryman BNCOC	PLGR	6.48 km ²	0.5
Indirect Fire Infantryman BNCOC	Land Navigation	6.48 km ²	1.0
Indirect Fire Infantryman BNCOC	Land Navigation Exam	6.48 km ²	0.5
Indirect Fire Infantryman BNCOC	Land Navigation Exam Night	6.48 km ²	0.5
Indirect Fire Infantryman BNCOC	Land Navigation Retest	6.48 km ²	1.0
Indirect Fire Infantryman BNCOC	STX	32.4 km ²	8.5
Heavy Antiarmor Weapons Infantryman BNCOC	PLGR	6.48 km ²	0.5
Heavy Antiarmor Weapons Infantryman BNCOC	Land Navigation	6.48 km ²	1.0
Heavy Antiarmor Weapons Infantryman BNCOC	Land Nav Exam Day	6.48 km ²	0.5
Heavy Antiarmor Weapons Infantryman BNCOC	Land Nav Exam Night	6.48 km ²	0.5
Heavy Antiarmor Weapons Infantryman BNCOC	Land Nav Retest	6.48 km ²	1.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Infantry School, (cont)			
Heavy Antiarmor Weapons Infantryman BNCOC	HIMMS	0.39 km ²	0.5
Heavy Antiarmor Weapons Infantryman BNCOC	Machine Guns	0.39 km ²	1.0
Heavy Antiarmor Weapons Infantryman BNCOC	Dismount/Remount MG	0.39 km ²	0.5
Heavy Antiarmor Weapons Infantryman BNCOC	Zero MGs	0.39 km ²	1.0
Heavy Antiarmor Weapons Infantryman BNCOC	Tactics	32.8 km ²	3.0
Heavy Antiarmor Weapons Infantryman BNCOC	STX	32.8 km ²	12.0
BFV-Infantryman BNCOC	PLGR	6.48 km ²	0.5
BFV-Infantryman BNCOC	Land Navigation	6.48 km ²	1.0
BFV-Infantryman BNCOC	Land Nav Exam Day	6.48 km ²	0.5
BFV-Infantryman BNCOC	Land Nav Exam Night	6.48 km ²	0.5
BFV-Infantryman BNCOC	Land Nav Retest	6.48 km ²	1.0
BFV-Infantryman BNCOC	Demolitions	0.07 km ²	1.0
BFV-Infantryman BNCOC	Tactics	32.8 km ²	4.5
BFV-Infantryman BNCOC	Patrolling	32.8 km ²	1.5
BFV-Infantryman BNCOC	STX	32.8 km ²	9.0
Drill Sergeant	STX/FTX	40.5 km ²	1.5
Drill Sergeant	Hand-to-Hand Pit	0.02 km ²	1.5
Drill Sergeant	Confidence Course	0.02 km ²	0.5
Drill Sergeant	Parade/Drill Field	0.40 km ²	14.0
Drill Sergeant	Obstacle Course	0.09 km ²	0.5
Primary Leadship Development Course (PLDC)	FTX	24.3 km ²	11.5
PLDC	Land Navigation	6.48 km ²	1.5
PLDC	MILES Training	14.2 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Military Intelligence School, Fort Huachuca			
MIOBC Officer Basic Course	Field Tng	111 km ²	1.0
MIOAC MI Captain's Career Course	FTX	64 km ²	1.0
MIOAC MI Captain's Career Course	Professional Development	4 km ²	1.0
33W EW/Intercept Systems Maintenance IET	FTX	200 km ²	3.0
96B Intel Analyst IET	FTX	1 km ²	4.0
96B Intel Analyst IET	Land Navigation	4 km ²	1.0
96D Imagery Analyst IET	FTX	4 km ²	3.0
96H Imagery Ground Station Opr IET	FTX	4 km ²	3.0
96R Ground Surveillance System Opr IET	FTX	9 km ²	2.0
96R Ground Surveillance System Opr IET	Land Navigation	4 km ²	1.0
96R Ground Surveillance System Opr BNCOC	STX	4 km ²	3.0
96U UAV Opr IET	FTX	25 km ²	3.0
96U UAV Opr IET	Launch/Recovery	10 km ²	270.0
96U UAV Opr BNCOC	PE/TEST	4 km ²	7.0
SEMA (UAV Associated)	Operations	25 km ²	270.0
97B CI Agent IET	FTX	1 km ²	4.0
97B CI Agent IET	Land Navigation	4 km ²	1/0
97E HUMINT Collector	FTX	1 km ²	4.0
97E HUMINT Collector	Land Navigation	4 km ²	1.0
98G EW/SIG Voice Interceptor BNCOC	STX	4 km ²	1.0
98H Morse Interceptor BNCOC	STX	4 km ²	1.0
98J Non-Communications Interceptor/Analyst IET	FTX	4 km ²	3.0
96/98CMF ANCOC	Land Navigation	4 km ²	1.0
Military Police School (MANSCEN), Fort Leonard Wood			
Military Police [95B]	MOS Skills Tng	25 km ²	40.0
Corrections Specialist [95C]	MOS Skills Tng	8 km ²	40.0
Officer Instruction	Officer Tng	25 km ²	15.0
Non-commissioned Officer Education System (NCOES)	NCO Tng	25 km ²	15.0
NCO Academy (Soldier Support Institute), Fort Sam Houston			
71L30 Admin Spec BNCOC	FTX	12 km ²	3
71L40 Admin Spec BNCOC	FTX	12 km ²	3
NCO Academy (Soldier Support Institute)(cont)			
27D30 Paralegal Spec BNCOC	FTX	12 km ²	3
27D40 Paralegal Spec ANCOC	FTX	12 km ²	3
73C/D30 Finance/Accounting BNCOC	FTX	12 km ²	3

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
NCO Academy (Soldier Support Institute), (cont)			
73C/D40 Finance/Accounting ANCOC	FTX	12 km ²	3
75H30 Personnel Sgt BNCOC	FTX	12 km ²	3
75H40 Senior Personnel Sgt ANCOC	FTX	12 km ²	3
71M30 Chap Asst BNCOC	FTX	12 km ²	3
71M40 Chap Asst ANCOC	FTX	12 km ²	3
Ordnance School Aberdeen Proving Ground			
63B30 Light Wheeled Vehicle Mechanic	FTX	0.1 km ²	3.0
45G10 Fire Control System	FTX	0.1 km ²	2.0
63G10 Fuel Electronic Systems	FTX	0.1 km ²	2.5
63W10 Whelled Vehicle Rpr	FTX	0.1 km ²	2.5
45B10 Small Arms Rpr	FTX	0.1 km ²	1.0
45B10 Small Arms Rpr	FTX	0.1 km ²	0.5
45B10 Small Arms Rpr	FTX	0.1 km ²	0.5
45_10 Armament Rpr	FTX	0.1 km ²	1.0
45_10 Armament Rpr	FTX	0.1 km ²	1.0
52C10 Utility Equipment Rpr	FTX	0.1 km ²	2.0
52D10 Power Generator Equipment Rpr	FTX	0.1 km ²	0.50
52D10 Power Generator Equipment Rpr	FTX	0.1 km ²	1.50
63J10 QTRM/CHEM Equipment Rpr	FTX	0.1 km ²	0.5
63J10 QTRM/CHEM Equipment Rpr	FTX	0.1 km ²	0.5
63J10 QTRM/CHEM Equipment Rpr	FTX	0.1 km ²	0.5
44E10 Machinist	FTX	0.1 km ²	0.5
44E10 Machinist	FTX	0.1 km ²	1.5
44B10 Metal Worker	FTX	0.1 km ²	1.0
44B10 Metal Worker	FTX	0.1 km ²	0.5
45K30 Armament Repair Supervisor	FTX	0.1 km ²	3.0
52C30 Utility Equipment Rpr Supervisor	FTX	0.1 km ²	3.0
52C30 Utility Equipment Rpr Supervisor	FTX	0.1 km ²	3.0
52D30 Power Generator Equipment Rpr Supervisor	FTX	0.1 km ²	3.0
44E30 Metal Worker BNCOC	FTX	0.1 km ²	3.0
44E30 Machinist BNCOC	FTX	0.1 km ²	3.0
36H30 Track Vehicle BNCOC	FTX	0.1 km ²	3.0
C220-9 Ordnance Maintenance Management OBC	FTX	0.1 km ²	8.0
63-C42 Ordnance ANCOC	FTX	0.1 km ²	3.0
63D10 SP FA Systems Mechanic	FTX	0.1 km ²	3.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km ²)	Duration (Days)
Ordnance School, (cont)			
63D10 SP FA Systems BNCOC	FTX	0.1 km ²	3.0
63T30 BFV Systems Mechanic	FTX	0.1 km ²	3.0
63H10 Track vehicle Rpr:	FTX	0.1 km ²	2.0
63Y10 Track Vehicle Mechanic:	FTX	0.1 km ²	2.0
45D10 SP FA Turret Rpr	FTX	0.1 km ²	1.0
45D10 SP FA Turret Rpr	FTX	0.1 km ²	1.0
63D30 SP FA Systems Mechanic	FTX	0.1 km ²	3.0
C32-91 Unit Maintenance Technician	Recovery Ops	0.4 km ²	0.5
C32-91 Allied Trades	Tow Disabled Vehicle	0.4 km ²	1.0
C32-91 Senior Auto Mechanic	Tow Disabled Vehicle	0.4 km ²	1.0
4L-915A Unit Maintenance Tech (L)	Recovery Ops	0.4 km ²	1.0
4L-915A Unit Maintenance Tech (L)	Rigging	0.4 km ²	1.0
4L-915A Unit Maintenance Tech (L)	Load/Unload HET	0.4 km ²	1.0
4L-915A Unit Maintenance Tech (L)	Load/Transport	0.4 km ²	1.0
63H30 Track Vehicle BNCOC	Recovery	0.4 km ²	1.0
63H30 Track Vehicle BNCOC:		0.4 km ²	1.5
ASIH8 Track Vehicle Recovery Specialist	Vehicle Recovery	0.4 km ²	15.0
C220-9 Ordnance Maint Mgmt OBC	Drive Rcy Veh	0.4 km ²	1.5
C220-9 Ordnance Maint Mgmt OBC	Field Rcy	0.4 km ²	1.5
63T30 BFV Systems Mechanic	Recovery	0.4 km ²	2.5
Reserve Officer Training Corps (ROTC), Cadet Command, Fort Monroe			
Basic Camp		15 km ²	1.0
Advanced Camp	Individual Tactical Training	15 km ²	1.0
Advanced Camp	Squad Tactical Training	15 km ²	5.0
Advanced Camp	Platoon Tactical Training	15 km ²	5.0
Signal School, Fort Gordon			
31P10 Microwave Systems Op/Maint	DGM II STX Site	0.02 km ²	5.0
31U10 Signal Spt Sys Spec	Systems Integration FTX	0.04 km ²	8.5
31F10(CT)(F) TATS NTWK SW SYS OP/Maint	SMART-T Maint	.004 km ²	10.0
31F10(CT)(F) TATS NTWK SW SYS OP/Maint	STX	0.04 km ²	8.0
31R10(CT)(F) TATS Mult Chnl Sys OP/Maint	Antenna Training	0.06 km ²	5.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Signal School (cont)			
31R10(CT)(F) TATS Mult Chnl Sys OP/Maint	STX	0.04 km ²	5.0
31C10 Radio Opr/Maint:	MOS Tng	0.06 km ²	3.0
31C10 Radio Opr/Maint:	MOS Tng	0.06 km ²	5.0
31C10 Radio Opr/Maint:	MOS Tng	0.06 km ²	1.0
31C10 Radio Opr/Maint:	MOS Tng	0.06 km ²	6.0
31L10(F) Cable Sys Instal/Maint	Tele Cable Const & Maint	0.06 km ²	4.5
31L10(F) Cable Sys Instal/Maint	CX-11230/G Const/Maint	0.10 km ²	6.5
31L10(F) Cable Sys Instal/Maint	CX-13295/G Constr/Maint	0.10 km ²	3.5
31L10(F) Cable Sys Instal/Maint	CX-4566/G Constr/Maint	0.10 km ²	3.0
4-11-C20 Signal Officer Basic	FTX	8.00 km ²	15.0
31S/31P40 Satellite/Micro Sys Chf ANCOC	FTX	0.06 km ²	5.0
5-74-C42 Data Process ANCOC	FTX	0.06 km ²	5.0
31W40 Telecomm Ops Chf ANCOC	FTX	0.06 km ²	5.0
31C30 Radio Op/Maint BNCOC	NCO Tng	0.06 km ²	5.0
31F30 Elect Switch Sys Op BNCOC	Shared Tng Exercise	0.06 km ²	5.0
31L30 Cable Sys Inst/Maint BNCOC	Shared Tng Exercise	0.06 km ²	5.0
31R30 Multi Trans Sys Ops/Maint BNCOC	Shared Tng Exercise	0.06 km ²	5.0
31S30 SATCOM Sys Op/Maint BNCOC	FTX	0.06 km ²	5.0
31U30 Sig Spt Sys Spec BNCOC	Shared Tng Exercise	0.06 km ²	5.0
31U40 Sig Spt Sys Spec ANCOC	FTX	0.06 km ²	5.0
31P30 Microwave Sys Op/Maint	Shared Tng Exercise	0.06 km ²	5.0
74B30 Info Sys Ops Analyst BNCOC	Shared Tng Exercise	0.06 km ²	5.0
74C30 Rec Telecomm Ctr Op BNCOC	FTX	0.06 km ²	5.0
74G30 Telecom Comp Op/Maint BNCOC	FTX	0.06 km ²	5.0
25M30 Multimedia BNCOC	FTX	0.04 km ²	5.0
25R30 Vis Infor Equip Op/Maint BNCOC	FTX	0.04 km ²	5.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
Signal School, (cont)			
25V30 Combat Doc/Production BNCOC	FTX	0.04 km ²	5.0
46Q/R40 Public Affairs Supv BNCOC	FTX	0.04 km ²	7.0
46Q/R40 Public Affairs Supv ANCOC	FTX	0.04 km ²	7.0
4-25-C42 Adv Information Operation Chief	FTX	0.04 km ²	7.0
102-31 SATCOM Sys Opr/Maint	OE-371/G, OE-222, 3199 Antenna	0.08 km ²	12.5
102-31 SATCOM Sys Opr/Maint	AN/TSC-85B/93B	0.08 km ²	9.5
Special Warfare Center and School (USAJFKSWCS), For Bragg			
3A-F38/012-F27 Sere High Risk (LevelC)	Infiltration Course	0.04 km ²	14.0
011-18B40 SF Wpns Sgt ANCOC	FTX Site	64.78 km ²	9.0
011-18B40 SF Wpns Sgt ANCOC	Man Tng Area FTX	64.78 km ²	14.5
011-18C30 SF Engineer Sgt BNCOC	Airborne Operations	2 km ²	3.0
011-18C30 SF Engineer Sgt BNCOC	Man Tng Area FTX	64.78 km ²	28.5
011-18C40 SF Engineer Sgt ANCOC	FTX Site	64.78 km ²	9.0
011-18C40 SF Engineer Sgt ANCOC	Man Tng Area FTX	64.78 km ²	14.5
011-18D30 SF Medical Sgt BNCOC (PH2)	Man Tng Area FTX	110.0 km ²	37.0
011-18D30 SF Medical Sgt BNCOC (PH2)	Tng Site -- Local	15.58 km ²	12.0
011-18D30(2) SF Medical Sgt BNCOC (PH1)	Man Tng Area FTX	110.0 km ²	37.0
011-18D30(2) SF Medical Sgt BNCOC (PH3)	Airborne Operations	0.0 km ²	3.5
011-18D30(2) SF Medical Sgt BNCOC (PH3)	UW FTX	236.84 km ²	39
011-18D40 SF Medical Sgt ANCOC	FTX Site	64.78 km ²	14.5
011-18D40 SF Medical Sgt ANCOC	Man Tng Area FTX	64.78km ²	9.0
011-18E30 SF Commo Sgt BNCOC	Commex/FPE Max Gain	10.36 km ²	63.5
011-18E30 SF Commo Sgt BNCOC	Tng Site -- Local	15.58 km ²	25.5
011-18E30 SF Commo Sgt BNCOC	Man Tng Area FTX	110.0 km ²	37.0
011-18E40 SF Commo Sgt ANCOC	FTX Site	64.78 km ²	14.5
011-18E40 SF Commo Sgt ANCOC	Man Tng Area FTX	110.0 km ²	9.0
2E-F128/001-F43(GM) SOF Basic Military	Drop Zone	1.0 km ²	1.5
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	116.6 km ²	6.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km²)	Duration (Days)
USAJFKSWCS, (cont)			
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	2876.11 km ²	3.5
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	51.82 km ²	1.5
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	2526.32 km ²	2.5
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	259.11 km ²	15.0
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	285.02 km ²	15.0
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	310.93 km ²	15.0
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	437.90 km ²	15.0
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	427.93 km ²	15.5
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	3886.64 km ²	42.5
2E-F67/011-ASIW3 Special Ops Target Integration	Tracking/Sketch/Mvmt	2.0 km ²	TBD
2E-F67/011-ASIW3 Special Ops Target Integration	Judge Distance/Mvmt/ Observation	2.59 km ²	TBD
2E-F67/011-ASIW3 Special Ops Target Integration	Mvmt Hide FTX	2.0 km ²	TBD
2E-18A SF Detachment Off Qual	UW FTX Site	236.84 km ²	39.0
2E-18A SF Detachment Off Qual	FTX Site	64.78 km ²	95.5
2E-180A SF Tech WO Basic	Urban/Rural FTX	64.78 km ²	5.5
2E-180A SF Tech WO Basic	FTX Site	64.78 km ²	16.0
243-37F10 Psyop Specialist	Man Tng Area FTX	64.78 km ²	11.0
243-37F10 Psyop Specialist	FTX Site	64.78 km ²	7.5
243-37F30 Psyop Specialist BNCOC	Man Tng Area FTX	64.78 km ²	25.5
243-37F40 Psyop Specialist ANCOC	Man Tng Area FTX	64.78 km ²	9.0
3A-F38/012-F-27 Sere High Risk (Level C)	Survival Tng	0.16	4.0
3A-F40/011-F-1 Individ Terrorism Awareness	Wheeled Vehicle Driving	0.04 km ²	1.0
3A-F40/011-F-1(PKO) INTAC (UNPKO)	Wheeled Vehicle Driving	0.04 km ²	1.0
011-F66 Adv Military Fre-Fall Para	Drop Zone	1.0 km ²	28.5
011-18B30 SF Wpns Sgt BNCOC	Airborne Operations	2.0 km ²	2.0
011-18B40 SF Wpns Sgt ANCOC	Airborne Operations	2.0 km ²	3.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
USAJFKSWCS, (cont)			
011-18C40 SF Engineer Sgt ANCOG	Airborne Operations	0.0 km ²	9.0
011-18D40 SF Medical Sgt ANCOG	Airborne Operations	0.0 km ²	3.0
011-18E30 SF Commo Sgt BNCOC	Airborne Operations	2.0 km ²	6.0
011-18E40 SF Commo Sgt ANCOG	Airborne Operations	0.0 km ²	3.0
101-F12 Special Opn Communications	Airborne Operations	0.02 km ²	19.5
2E-F114/011-F29(CX) Czech (CX) SOF Basic Military	Drop Zone	1.0 km ²	1.5
2E-F115/011-F30(KP) Korean (KP) SOF Basic Military	Drop Zone	1.0 km ²	1.5
2E-F116/011-F31(TH) Thailand (TH) SOF Basic Military	Drop Zone	1.0 km ²	1.5
2E-F117/011-F32(QB) Spanish (QB) SOF Basic Military	Drop Zone	1.0 km ²	1.5
2E-F118/011-F33(RU) Russian (RU) SOF Basic Military	Drop Zone	1.0 km ²	1.5
2E-F119/011-F34(PL) Polish (PL) SOF Basic Military	Drop Zone	1.0 km ²	1.5
2E-F120/011-F35(FR) French (FR) SOF Basic Military	Drop Zone	1.0 km ²	1.5
2E-F121/011-F36(AD) Arabic (AR) SOF Basic Military	Drop Zone	1.0 km ²	1.5
2E-F122/011-F37(PF) Persian Farsi (PF) SOF Basic Military	Drop Zone	1.0 km ²	1.5
2E-F124/011-F39(PT) Portuguese (PT) SOF Basic Military	Drop Zone	1.0 km ²	1.5
2E-F125/011-F40(TA) Tagalog (TA) SOF Basic Military	Drop Zone	1.0 km ²	1.5
2E-F126/011-F40(VN) Vietnamese (VN) SOF Basic Military	Drop Zone	1.0 km ²	1.5
2E-F133/011-F46 SF Adv recon, Tgt Anal, & Expl	Abn Operations	2.0 km ²	1.5
2E-F141/011-F27 Adv Special Ops Tech	Drop Zone	0.78 km ²	.5
2E-F56/011-F15 Military Free Fall Jumpmaster	Abn Operations	2.43km ²	11.0
2E-S14X/ASI14X/011-AS Military Free Fall Para	Airborne Operations	2.59 km ²	15.0
2E-180A SF Tech WO Basic	Drop Zone	1.0 km ²	1.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
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USAJFKSWCS, (cont)			
243-37F10 Psyop Specialist	Drop Zone	1.0 km ²	2.5
243-37F30 Psyop Specialist BNCOC	Airborne Operations	2.0 km ²	.5
243-37F40 Psyop Specialist ANCOG	Airborne Operations	2.0 km ²	.5
3A-F38/012-F27 Sere High Risk (Level C)	Airborne Operations	2.49 km ²	.5
2E-F129/011-F44 SF Assessment and Selection	Obstacle Course	.02 km ²	2.0
3A-F38/012-F-27 Sere High Risk Level C)	Obstacle Course	.02 km ²	2.5
2E-F129/011-F44 SF Assessment and Selection	Land Navigation	129.56 km ²	10.0
2E-18A SF Detachment Off Qual	Land Navigation	64.78 km ²	18.5
2E-180A SF Tech WO Basic	Land Navigation Tng	64.78 km ²	2.0
500-38A10-RC Civil Affairs Specialist-RC	Land Navigation Tng	129.56 km ²	4.0
3A-F38/012-F-27 Sere High Risk Level C)	Survival Tng FTX	236.84 km ²	13.5
2E-180A SF Tech WO Basic	Public Land Tng Site	236.84 km ²	16.0
Transportation School, Fort Eustis			
88M10 Motor Transport Operator	Wheeled Veh Driving (Training conducted at Fort Leonard Wood)	0.18 km ²	1.0
88M10 Motor Transport Operator	Wheeled Veh Driving (Training conducted at Fort Leonard Wood)	0.18 km ²	1.0
ASIH7 Petroleum Vehicle Operator	Wheeled Veh Driving (Training conducted at Fort Leonard Wood)	0.18 km ²	1.0
88P10-RC Locomotive Rpr-RC	Rail Ops	27.35 km <u>Note:</u> Rail Ops in kms not km ²	0.5
8-55-C20-88A/C/D Transportation Officer Basic	Tactical EX	0.032 km ²	1.0

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Transportation School, (cont)			
8-55-C20-88A/C/D Transportation Officer Basic	SEALINK CPX	0.58 km ²	0.5
8-55-C20-88A/C/D Transportation Officer Basic	SEALINK CPX	5.56 Naut Miles	1.0
8-55-C20-88A/C/D Transportation Officer Basic	Land Nav	0.18 km ²	0.5
8-55-C20-88A/C/D Transportation Officer Basic	TB FTX	1.86 km ²	0.5
8-55-C20-88A/C/D Transportation Officer Basic	Tac Ops Site	.006 km ²	0.5
8-55-C20-88A/C/D Transportation Officer Basic	A/DACG Ops	0.03 km ²	0.5
8-55-C20-88A/C/D Transportation Officer Basic	Rail Ops	0.04 km ²	0.5
8-55-C20-88A/C/D (BQ) Trans Officer Basic (Branch Qual)	Tac Opn Site	.006 km ²	0.5
8-55-C20-88A/C/D (BQ) Trans Officer Basic (Branch Qual)	Rail Ops	4.73 km ²	0.5
8-55C20-88A/C/D (BQ) Trans Officer Basic (Branch Qual)	Amphibious Orientation	.006 km ²	0.5
8-55-C22 (LOG) Combined Logistics Captains Career Course (CLC3) (P2)	Tac Opn Site	.006 km ²	0.5
8-55-C22 (LOG) Combined Logistics Captains Career Course (CLC3) (P2)	Rural Opn Site	.006 km ²	0.5
8-55-C22 (LOG) Combined Logistics Captains Career Course (CLC3) (P2)	Amphibious Orientation	4.73 km ²	0.5
8-55-C23C Trans Officer Advanced RC-Marine Terminal	Amphibious Orientation	4.73 km ²	0.5
8-55-C23C Trans Officer Advanced RC-Highway/Rail	Rural Opn Site	.006 km ²	0.5
88U10-RC Railway Operations Crewmember (RC)	Locomotive Opns	27.35 km (Rail opns in kms not km ²)	1.0
88H10 Cargo Specialist	Miscellaneous	0.44 km ²	2.0
88T10 Railway Section Rpr (RC)	Track Repair	27.35 km (Rail opns in kms not km ²)	0.5
88M30 MotorTransport Opr BNCOC	Field Site	1.86 km ²	0.5
88M30 MotorTransport Opr BNCOC	Driver Tng Area	0.04 km ²	0.5
88M40 MotorTransport Opr ANCOC	Field Site	0.78 km ²	0.5
88H20/30 Cargo Specialist BNCOC	Miscellaneous	0.44 km ²	1.5
88H40 Cargo Specialist ANCOC	Miscellaneous	0.04 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Transportation School, (cont)			
88L10 Watercraft Engineer	Fld Tng Exercise	26.0 km ²	9.0
4H-881A Marine Engineering Off- WO Basic Crse	Fld Tng Ex	26.0 km ²	15.0
88K10 Watercraft Operator (AIT)	Seamanship	28.0 Nau mi	5.0
88K10 Watercraft Operator (AIT)	Fld Tng Ex	90.0 Nau mi	9.0
062-F5 Watercraft Opr Certification	Landing Craft Operations	28.0 Nau mi	7.5
8C-880A Marine Deck Officer WO Basic Course	Piloting Cruise	600 Nau mi	10.0
8C-880A Marine Deck Officer WO Basic Course	Celestial Cruise	600 Nau mi	10.0
8C-880A Marine Deck Officer Warrant Officer (WO) Basic Course	LCU/TUG OPS	28.0 Nau mi	36.0
8C-880A Marine Deck Officer WO Basic Course	VSDPT	28.0 Nau mii	30.0
8C-SQ12 Marine Deck Officer A2 Certification Crse	Piloting/Celestial Cruise	600 Nau mi	10.0
8C-SQ12 Marine Deck Officer A2 Certification Crse	Watch Officer Performance Test	600 Nau mi	30.0
88L30 Watercraft Engineer BNCOC	Fld Tng Exercise	26.0 Nau mi	9.0
88L40 Watercraft Engineer ANCOC	Fld Tng Exercise	26.0 Nau mi	9.0
88K30 Watercraft Operator BNCOC	Fld Tng Exercise	300 Nau mi	9.0
88K30 Watercraft Operator BNCOC	Rigging of TOWS	28.0 Nau mi	5.5
88K40 Watercraft Operator ANCOC	Fld Tng Exercise	300 Nau mi	9.0
88K40 Watercraft Operator ANCOC	LCU Operations	28.0 Nau mi	5.0
8C-SI3S/553-F4 Air Deployment Planning Course	Prep Unit Equip	0.026 km ²	0.5
8C-SI3S/553-F4 Air Deployment Planning Course	463 Cargo Plts	0.026 km ²	0.5
8C-SI3S/553-F4 Air Deployment Planning Course	A/DACG	0.026 km ²	0.5
8C-E17/553-F5 Unit Movement Officer Deployment Planning	Rail Load PE	0.04 km ²	1.0
8C-E17/553-F5 Unit Movement Officer Deployment Planning	Cargo Loadout	0.026 km ²	0.5
8C-882A Mobility Warrant Officer Basic	Prep Unit Equip	0.026 km ²	0.5
8C-882A Mobility Warrant Officer Basic	463 Cargo Plts	0.026 km ²	0.5

Institutional POI Maneuver Area Requirements, (cont)

Courses	Events	Size (km)	Duration (Days)
Transportation School, (cont)			
8C-882A Mobility Warrant Officer Basic	A/DACG	0.026 km ²	0.5
88N10 Traffic Management Coordinator	CPX/FTX	0.026 km ²	9.0
88N30 Traffic Management Coordinator	CPX/FTX	0.026 km ²	9.0
88N40 Traffic Management Coordinator	CPX/FTX	0.026 km ²	9.0

Appendix C

Methodology for ARTEP Mission Collective Training

“Tactical maneuver wins battles and engagements. By keeping the enemy off balance, it also protects the force. In both the offense and the defense, it positions forces to close with and destroy the enemy.”
FM 3-0, Operations, June 2001.

C-1. Introduction. Unit training for modern warfare requires large maneuver/training areas to conduct exercises over varying terrain. A training environment that restricts employment of a unit (company team, battalion task force, or brigade combat team) does not properly reflect battlefield conditions and fails to prepare units for combat. Experience shows a direct correlation between realistic training and success on the battlefield.

C-2. Battalion task force isolated-event exercises. It is possible to train for each of the unit ARTEP missions in Appendix A in isolation. Figures C-1 through C-3 depict three ARTEP 71-2 missions for the mechanized infantry/armor battalion task force (offense, defense, and retrograde). The figures illustrate the common control measures and maneuver area required for a field training exercise (FTX) executing each of the three ARTEP missions as an isolated event.

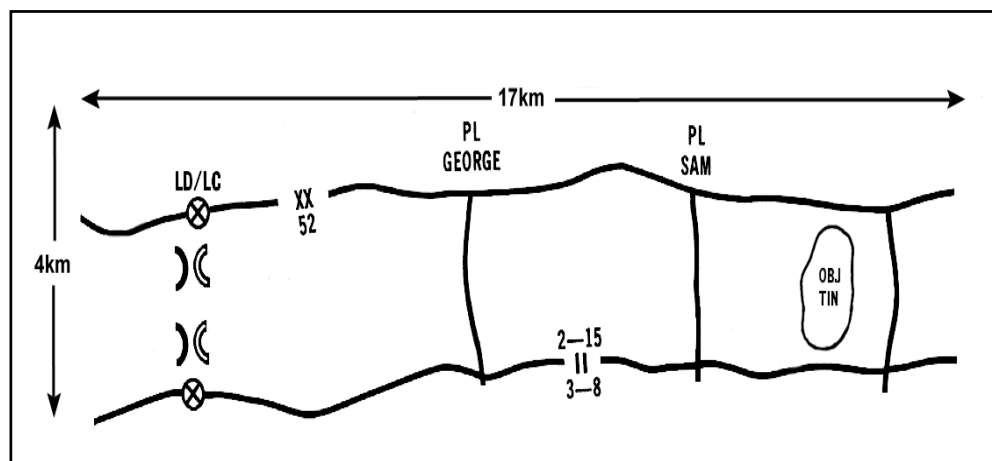


Figure C-1. Battalion task force maneuver area requirements (offense)

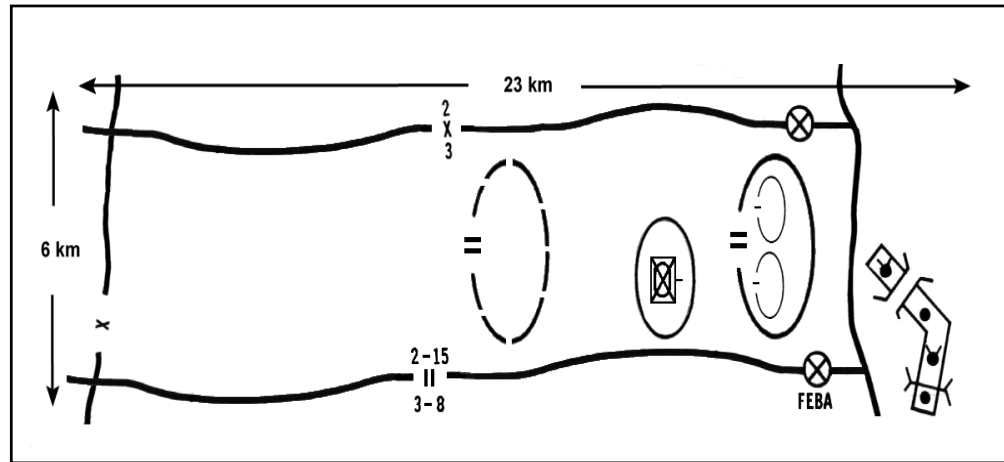


Figure C-2. Battalion task force maneuver area requirements (defense)

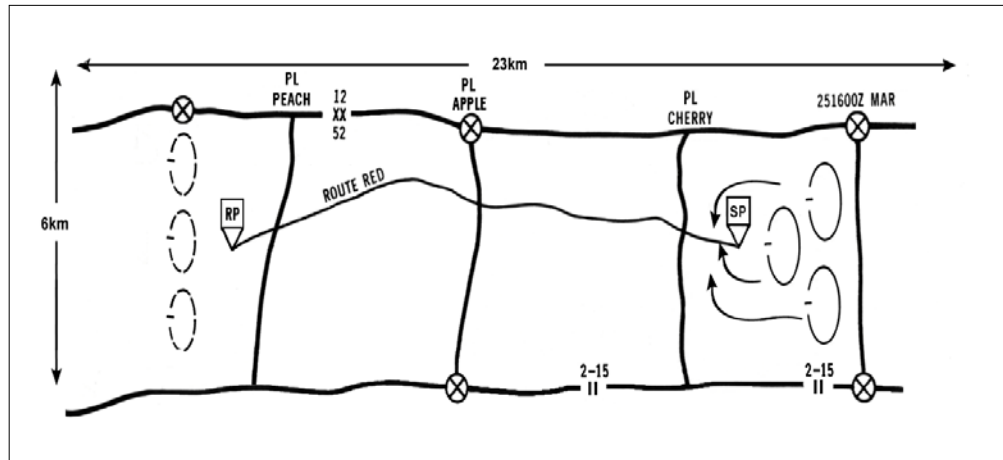


Figure C-3. Battalion task force maneuver area requirements (retrograde)

C-3. Battalion task force free-flowing exercises.

a. The battalion task force should undertake an extended FTX to provide realistic training of ARTEP missions, but not in isolation. The exercise should incorporate all critical missions in a logical sequence against a doctrinal opposing force (OPFOR). The battalion task force executes, in turn, a movement to contact, offensive operations, defensive operations, and a retrograde operation. Figure C-4 shows these ARTEP 71-2 mechanized infantry/armor battalion task force missions and the maneuver area requirements for a free-flowing FTX. The common control measures associated with these tactical operations have been omitted.

b. The maneuver area required to support the FTX shown in Figure C-4 is 86,486 acres. Compute this figure as follows:

(1) Compute the square kilometers of the two outer rectangles:

- 31 km x 8 km = 248 km²

- $17 \text{ km} \times 6 \text{ km} = 102 \text{ km}^2$

(2) Add those two areas: $248 \text{ km}^2 + 102 \text{ km}^2 = 350 \text{ km}^2$

(3) Convert km^2 to acres: $350 \text{ km}^2 \times 247.1 \text{ acres per square kilometer} = 86,486 \text{ acres}$

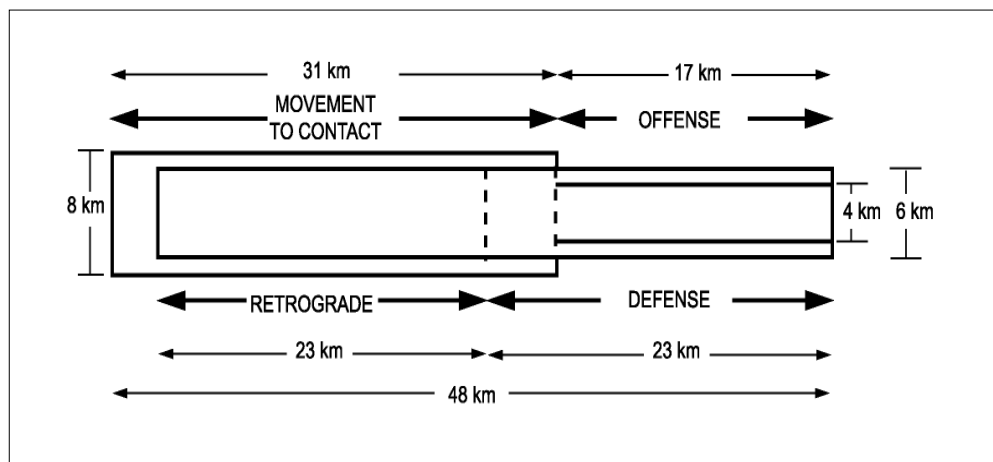


Figure C-4. Battalion task force maneuver area requirements (flowing scenario)

C-4. Brigade isolated-event exercises.

a. Using the battalion task force maneuver boxes as building blocks, trainers can construct the requirements for brigade scenarios. Figure C-5 shows the area required by the brigade to train movement to contact, offense, and defense or retrograde operations. These operations will require training as isolated events, not as a free-flowing training scenario. Figure C-5 illustrates the amount of maneuver area necessary to accommodate minimally adequate brigade-level training of these events.

b. In the case illustrated in Figure C-5, the maneuver area requirement is 496 km^2 or 122,562 acres. The brigade may practice all of its missions within this area. However, it must stop after each maneuver exercise to reposition forces for the next mission. By exercising all missions over the same terrain, training of some essential skills, such as map reading, land navigation, and reactions to tactical situations in an unfamiliar environment is not optimal. Also, repositioning of units is both a training distractor and a waste of valuable training time. The time to reposition a brigade combat team is significant.

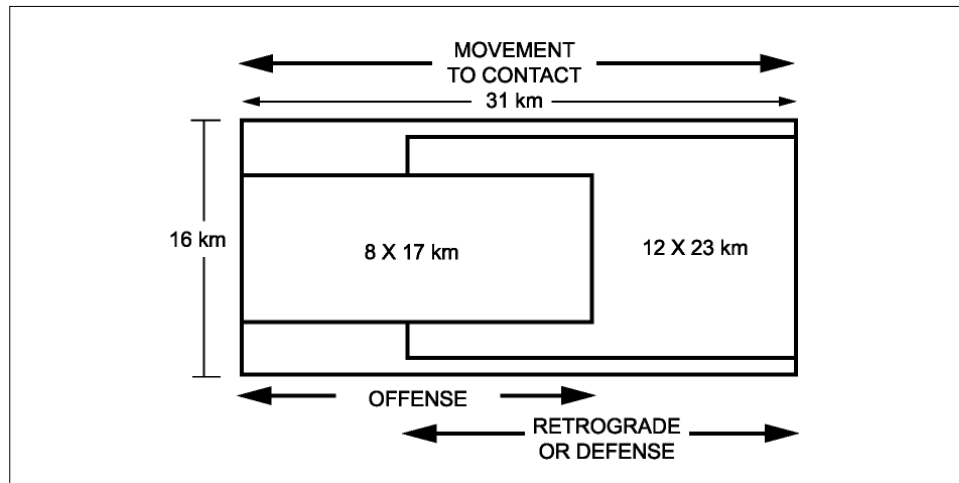


Figure C-5. Brigade maneuver area requirements (isolated events)

C-5. Brigade free-flowing exercises

a. As with the battalion task force, the brigade should conduct an extended FTX. The exercise should incorporate all critical ARTEP missions in a logical sequence against a doctrinal OPFOR. According to this process, the brigade illustrated in Figure C-6 requires 172,970 acres of training maneuver area. Compute this figure in the same manner used in paragraph C-3b of this Appendix.

(1) Compute the area of the outer rectangle:

- $31 \text{ km} \times 16 \text{ km} = 496 \text{ km}^2$
- $17 \text{ km} \times 12 \text{ km} = 204 \text{ km}^2$

(2) Add these areas $496 \text{ km}^2 + 204 \text{ km}^2 = 700 \text{ km}^2$

(3) Convert km^2 to acres: $700 \text{ km}^2 \times 247.1 \text{ acres per square kilometer} = 172,970 \text{ acres}$

b. In developing maneuver area requirements, remember that:

(1) The example in Figure C-6 is a heavy brigade composed of three infantry or armor battalions tailored to three battalion task forces. The task forces are tactically employed with two “up” and one “back” (in reserve).

(2) This brigade uses an appropriate OPFOR and a four-mission FTX of at least three days duration.

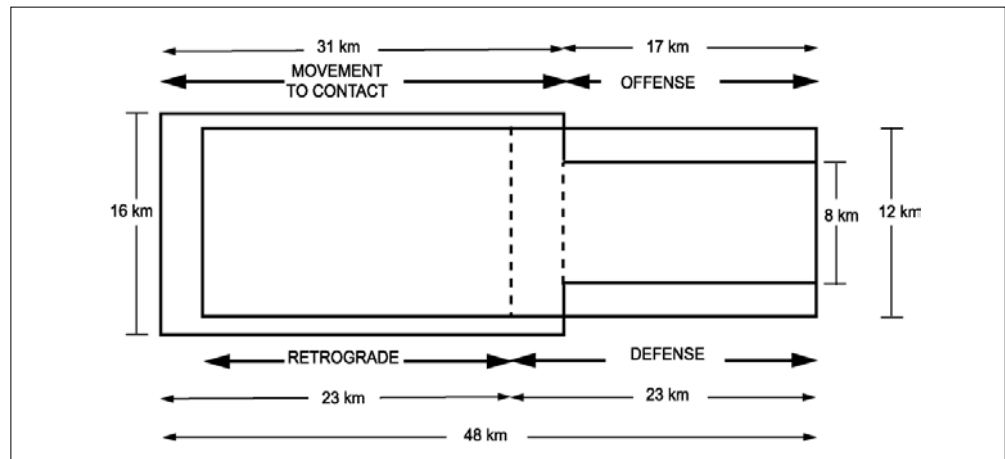


Figure C-6. Brigade maneuver area requirements (flowing scenario)

C-6. Forward support battalion exercises. The forward support battalion (FSB) establishes the brigade support area (BSA) and provides combat service support to the brigade and its units. The FSB normally accomplishes its maneuver training in conjunction with the brigade's maneuver exercises. Its maneuver area requirements are part of the brigade's and its tactical operations are closely coordinated with the brigade and its maneuver elements. Figure C-7 shows the FSB's maneuver area requirements to tactically operate the BSA when training independently. This requirement is 96 km² or 23,722 acres.

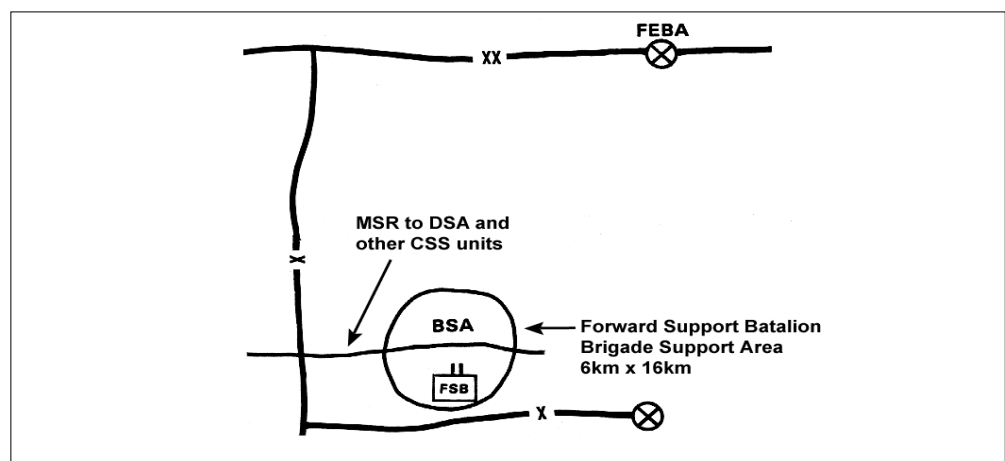


Figure C-7. FSB maneuver area requirements (training independently)

C-7. Division level exercises. Division-level maneuver training exercises are usually limited to command post exercises (CPX), fire coordination exercises (FCX), and tactical exercises without troops (TEWT). Compute annual usage requirements by using the appropriate maneuver area requirements table (See Tables A-1 through A-4, Appendix A).

C-8. ARTEP missions as separate events. Expansion of existing installations to provide larger maneuver areas is often neither practical nor feasible. Because of this, units may have to conduct ARTEP missions as separate events. Periodic access to a large maneuver area at a CTC partially offsets the disadvantages of training repeatedly over the same terrain. Lack of frequent access to a CTC forces commanders to schedule most unit training at home stations despite unavoidable limitations. The use of available maneuver area may be constrained by:

- a. Types and extent of maneuver.
- b. Number and size of subordinate organizations within maneuver forces.
- c. Surrogate or notional organizations used to provide simulations, obtain cues, or create situations to initiate activities.
- d. Limits on the duration of exercises or maneuver scenarios to conserve resources.
- e. Environmental considerations.
- f. Other land-use requirements, such as simultaneous live-fire training.
- g. Safety requirements

C-9. Potential Transformation Force Maneuver/Training Area Requirements.

a. The Initial/Interim Brigade Combat Team and ultimately the Objective Force must train to succeed across the spectrum of Army operations. That will include:

- (1) Offensive operations aimed at defeating and destroying the enemy.
- (2) Defensive operations that defeat an enemy attack, buy time, economize forces, or develop conditions favorable for offensive operations.
- (3) Stability operations that promote and protect US national interests through a combination of peacetime developmental, cooperative activities, and coercive actions in response to crisis.
- (4) Support operations that assist civil authorities in preparing for or responding to crisis and to relieve suffering.

b. IBCT and Objective Force ARTEP missions/tasks, and the required maneuver/training area requirements, were not identified and approved when this circular was published. The Army projected several IBCT maneuver/training area scenarios. These consist of contiguous and non-contiguous training lands. In the first example (Figure C-8), the requirement is 50 km x 50 km. Fort Hood fits inside this box. A second example, evolving from complex Army training exercises, is 100 km x 100 km. Rhode Island and Delaware fit inside this box. The current example, demonstrating the Transformation Force's dominance, is 150 km x 150 km. The historical Battle of the Bulge fits inside this maneuver box.

c. Ensuring the IBCT can train to standard will challenge Army commanders, trainers, and land managers to identify and sustain the required maneuver/training areas, and to develop the successful live training strategies.

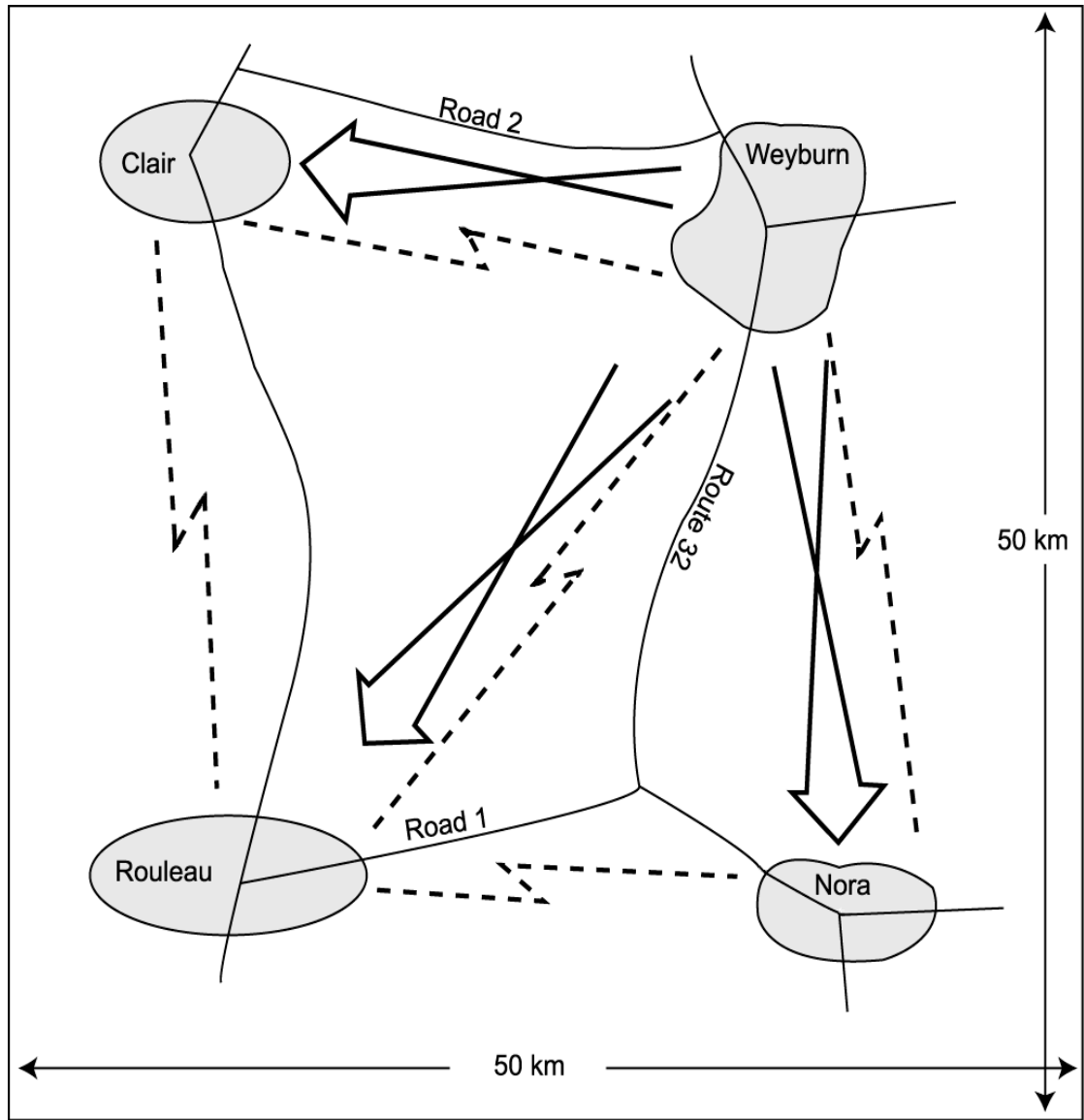


Figure C-8. IBCT maneuver area requirements (contiguous and non-contiguous)

Appendix D

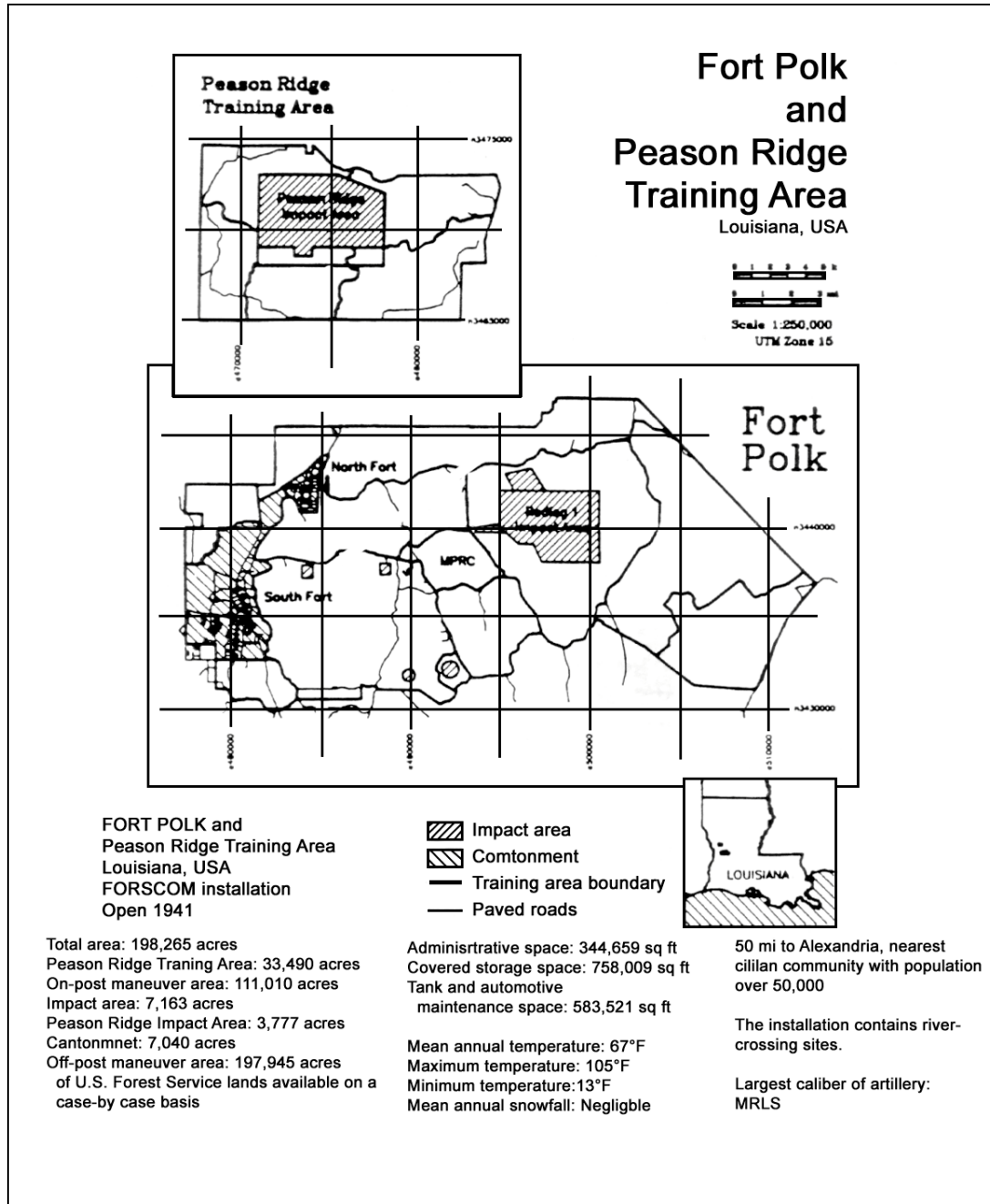
Geographical Information System (GIS) Maps

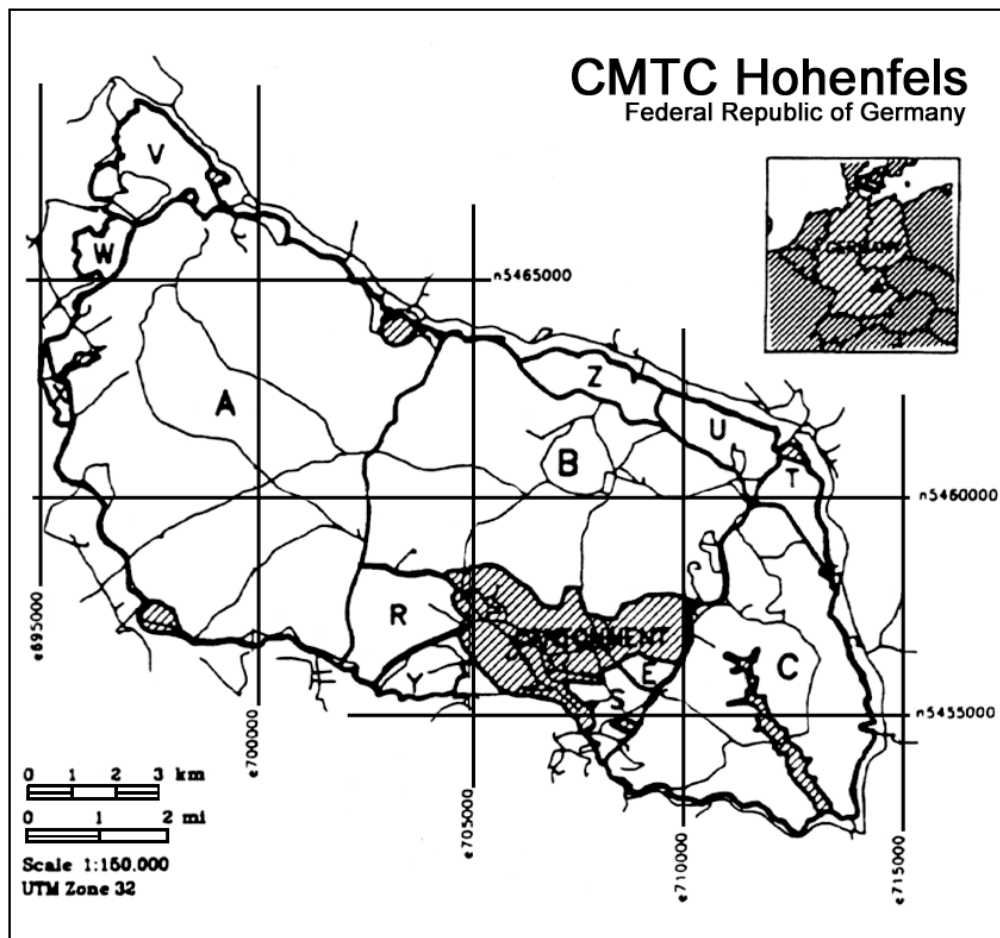
“The troops should be exercised frequently, cavalry as well as infantry, and the general should often be present to praise some, to criticize others, and to see with his own eyes that the orders...are observed exactly.”
Frederick the Great

A Geographic Information System (GIS) is a computer system capable of assembling, storing, manipulating, and displaying geographically referenced information. In the Army's ITAM program, GIS technology assists in creating, analyzing, displaying and printing training land information that supports the Army training and testing missions.




Many of the Army's larger installations have their own GIS capability, smaller installations are supported by GIS Regional Support Centers.

The Army's GIS capability continues to grow, as does the complexity and usefulness of GIS maps. Two early examples of Fort Polk and Hohennfels are included in Appendix D, and the intent is to link this training circular to a sophisticated GIS map inventory database at a future date.





COMBAT MANEUVER TRAINING CENTER, HOHENFELS
 Federal Republic of Germany
 USAREUR Training Center
 Opened 1951

-  Training area boundary
-  Primary road
-  Restricted area

Total area: 40,017 acres
 On-Post maneuver area: 39,007 acres
 Cantonment: 1010 acres
 Impact area: 0 acres

Mean annual tmerature (195-80): 7.4°C
 Maxium temperature: 35.2°C
 Minimum temperature: -26.1°C
 Mean annual snowfall: 14 inches

Administrative space: 46,776 sq ft
 Covered storage space: 132,716 sq ft
 Tank and automotive maintenance space: 177,312 sq ft

About 45km to Regensburg,
 nearest civilian community with population over 50,000

Glossary

AAS	analysis of alternatives study
AASLT	air assault
Abn	airborne
AC	Active Component
ACR	Armored Cavalry Regiment
Active Army	The active Army consists of (1) members of the Regular Army on active duty; (2) members of the Army National Guard of the United States and Army Reserves on active duty (other than for training); (3) members of the Army National Guard in the service of the United States pursuant to a call; and (4) persons appointed, enlisted, or inducted into the Army without component.
AD	air defense
ADA	Air Defense Artillery
AIT	Advanced individual training
AMEDD	Army Medical Department
Ammo	ammunition
AMSAA	Army Materiel Systems Analysis Agency
ANCOC	Advanced Noncommissioned Officers Course
APFT	Army Physical Fitness Test
AR	Army regulation; armor
Arm	Armor
Army Transformation	Army Transformation involves three key elements: the Legacy, Interim, and Objective Forces. The terms Legacy Force centers on the major weapon systems that the Army has in its inventory today, principally the Army's primary ground combat maneuver vehicles, the M1 Abrams tanks and M2/M3 Bradley Fighting Vehicles, and armored fire support and combat support vehicles. This is popularly known as the heavy

force, comprising the Army's mechanized infantry and armored divisions. The Army will continue upgrading this heavy force while developing the other path. The Legacy Force will continue to be the Army's primary warfighting maneuver force for the foreseeable future. The Interim Force is a stopgap force in several ways and a leap-ahead force in others. The plan is to use available technology to re-equip brigade-sized units to adapt them to meet many of the Army's missions. This will enable them to deploy more quickly than the heavy forces but have more combat punch, ground mobility and soldier protection than the Army's light forces (airborne, air assault, and light infantry units). The Interim Force will also accomplish other missions – develop much of the doctrine and training aspects of the Objective Force. The Objective Force represents the art of the possible; what can be done to equip, organize and train units to assimilate the best aspects of the heavy, light, and interim forces. Futurists believe that the line distinguishing the heavy force and light force will progressively blur. The Objective Force axis is designed to give the Army the means to make that blur possible while retaining all capabilities – the full-spectrum capabilities that are a linchpin of the Army vision. Currently, the Objective Force is in the science and technology phase, which focuses on equipment at this stage. Laboratories and other research facilities belonging to the Army, Department of Defense and private industry are doing core research to create, for example, a new family of armored fighting vehicles called the future combat system. Their goal is to produce fighting vehicles that are much lighter than armored vehicles in service today but which offer equal or better protection for soldiers who will use them.

ARNG	Army National Guard
ARRM	Army RTLP Requirements Model
ARSTAF	Army Staff
ARTEP	Army Training and Evaluation Program
ASA (IL&E)	Assistant Secretary of the Army (Installations, Logistics, and Environment)

ASIP	Army Station Installation Plan
ATMD	Army Training Modernization Directorate
ATSC	Army Training Support Center
ATTACC	Army Training and Testing Area Carrying Capacity
BCT	Basic training
Bde	Brigade
BFIST	Bradley Fire Support Team
BFV	Bradley Fighting Team
Bn	battalion
BNCO	Basic Noncommissioned Officers Course
BRM	Basic rifle marksmanship
BSFV	Bradley STINGER Fighting Vehicle
Btry	Battery
C4I	Command, Control, Communications, Computers, and Intelligence
CASCOM	Combined Arms Support Command
CATS	combined arms training strategy
Cal	Caliber
Cav	Cavalry
cbt	Combat
C&C	Command and control
CCTT	close combat tactical trainer
Cdr	Commander
CHSX	Combat Health Support Exercise
CI	Counter Intelligence

CINC	Commander-in-Chief
Cmd	Command
Co	company
Collective training	Training either in institutions or units that prepares cohesive teams and units to accomplish their missions on the battlefield and in operations other than war.
cont	Continued
CPX	command post exercise
Crse	Course
CSE	common support equipment
CTC	Combat training center
CWA	Clean Water Act
DA	Department of the Army
DAMO-TR	Department of the Army, Deputy Chief of Staff for Operations and Plans, Training Directorate
Decon	Decontamination
Det	Detachment
Div	Division
DMPRC	Digital multipurpose range complex
DOD	Department of Defense
DPTM	Director of Plans, Training, and Mobilization
DPW	Director of Public Works
DSS	Devices, simulations, and simulators
DZ	Drop Zone
EAC	echelons above corps
EA	environmental assessment

EA	environmental awareness
EFMB	Expert Field Medical Badge
EFMC	Expert Field Medical Badge Challenge
EIS	environmental impact statement/study
EPA	Environmental Protection Agency
ESA	Endangered Species Act
EW	electronic warfare
EX	Exercise
FA	field artillery
FAADS	Forward area aid defense systems
FATCOW	CH-47D Forward Arming and Refueling Point (FARP). The CH-47D is the primary aircraft used for air transporting FARPs. This helicopter has the capability to transport and pump up to 2,320 gallon of aviation fuel. This fuel is contained in 600-gallon, noncrashworthy tanks. Each CH-47D is a complete package by itself, with no additional aircraft required to make the FARP functional. The CH-47D may also be equipped to refuel itself using the tanks carried internally.
FATHAWK	The UH-60 has become a viable tool in FARP operations with the employment of the Fat Hawk system. Fat Hawk refers to a UH-60 configured for refueling and rearming. Fat Hawk consist of a UH-60 with a fuel pumping system, two fuel handlers, and ammunition. The type of ammunition carried by the helicopter is METT-T dependent. A properly configured UH-60 and a well-planned mission will result in the ability for two UH-60s to refuel and rearm a platoon of OH-58D(I) aircraft in 15 minutes.
FCX	fire coordination exercise
Fld	Field
FM	field manual
FSB	forward support battalion

FTX	field training exercise
GIS	Geographical Information System
GPS	Global Positioning System
HHB	Headquarters and Headquarters Battery
HHC	Headquarters and Headquarters Company
HHT	Headquarters and Headquarters Troop
How	Howitzer
HQDA	Headquarters, Department of the Army
HQ-TRADOC	Headquarters, Training and Doctrine Command
HTA	Hohenfels Training Area
Hvy	Heavy
IAW	in accordance with
IBCT	Initial Brigade Combat Team
Impact area (dudded and non-dudded)	<p>Dudded. an area having designated boundaries within which all dud-producing ordnance will detonate or impact. The primary function of the impact area is to contain weapons effects as much as possible using earthen berms or natural terrain features. Impact areas containing unexploded ordnance may not be used for maneuver.</p> <p>Non-dud. An area having designated boundaries within which ordnance, which does not produce duds, will impact. This area is composed mostly of the safety fans for small arms ranges. The primary function of the impact area is to contain weapons effects as much as possible using earthen berms or natural terrain features.</p>
Inf	Infantry
Initial Brigade Combat Team (IBCT)	<p>The Army's evolving structure – called the "Transformation Force." The restructured Army will have improved deployment characteristics while maintaining the capability to provide humanitarian assistance and prosecute military operations in low to high intensity conflicts.</p>

ICCC	Infantry Captains' Career Course
IERW	initial entry rotary wing
IET	initial entry training
Indiv	Individual
INRMP	Integrated Natural Resources Management Plan
Installation	An aggregation of contiguous or near-contiguous, common mission-supporting real property holdings under the jurisdiction of the Department of Defense or a state, the District of Columbia, territory, commonwealth, or possession, controlled by and at which a Department of Defense unit or activity (active or Reserve Component) is permanently assigned. A fixed location together with its land, buildings, structures, utilities, and improvements.
intel	Intel
IP	Instructor Pilot
ITAM	Integrated Training Area Management (Program)
ITC	installation training capacity
JRTC	Joint Readiness Training Center
km	Kilometer
km ²	square kilometer
LAW	light anti-armor weapon
LID	Light Infantry Division
LOTS	logistics over the shore
LRC	Leadership Reaction Course
LRSL	Long Range Surveillance Leader
LRSL-R	Long Range Surveillance Leader - Reserve
LURS	land use requirements study
LZ	Landing Zone

m	Meter
MA	Mortuary Affairs
mm	Millimeter
MACOM	Major Army Command
Maint	Maintenance
Maneuver/Training Areas	<p>Army maneuver/training areas are described in Department of the Army (DA) Pamphlet (Pam) 415-28, <i>Guide to Real Property Category Codes</i>. The Pam defines “maneuver/training areas“ as those designated for impact and detonation of all ordnance or those areas required for land-intensive training at the installation. These maneuver/training areas are further defined as “light, amphibious, and heavy forces.” These three forces have common characteristics to include: “Different type units may work in support of one another (combined arms), or the unit may operate on its own to practice a specific set of ARTEP tasks. Included in these areas are bivouac sites, base camps, and other miscellaneous training areas. Each area should be accounted for with a separate facility number and real property record.”</p> <p>Light forces - space for ground and air combat forces to practice movements and tactics as specified in the unit’s ARTEP. The “light” designation refers to areas where maneuver may be restricted to only small units or units having only wheeled vehicles. “Light” maneuver/training areas cannot be used by “heavy” forces.</p> <p>Amphibious forces - space for ground and air combat forces to practice movements and tactics during amphibious (ship-to-shore) operations. Tasks can include both combat and logistics (especially logistics over the shore, LOTS).</p> <p>Heavy forces - space for ground and air combat forces to practice movements and tactics as specified in the unit’s ARTEP. The “heavy” designation refers to areas where maneuver is unrestricted and can consist of all types of vehicles and equipment, including tracked vehicles. “Heavy” maneuver/training areas can be used by “Light” forces.</p>
MANCEN	Maneuver Center
MANPADS	Man-Portable Air Defense Systems

MD	Maryland
M-day	mobilization day
Mech	Mechanized
MEDCOM	Medical Command
METL	mission-essential task list
MG	Machinegun
MI	military intelligence
MILCON	Military Construction
MILES	Multiple Integrated Engagement System
MIM	maneuver impact mile
MIOAC	Military Intelligence Officers' Advanced Course
MIOBC	Military Intelligence Officers' Basic Course
Mission Training Plan (MTP)	A guide for units on what and how to train to achieve mission proficiency. It identifies unit wartime missions and the critical tasks that support them, provides comprehensive training and evaluation outlines, and provides exercises and other management aids to assist field commanders in planning and executing unit training.
MG	Machine Gun
MLRS	Multiple launch rocket system
MMP	master mobilization plan
MOA	memorandum of agreement
Mobilization	Mobilization brings the armed forces to a state of readiness for war or other national emergency. It includes assembling and organizing personnel, supplies, and materials for active military service; activating or federalizing the RC; extending terms of service; and taking other actions to convert to a wartime posture. Upon mobilization, installations will deploy peacetime forces to execute assigned wartime missions. The impact of mobilization on maneuver/training area requirements depends on the

installation's assigned mission. Installations designated as mobilization stations must receive, support, and train RC units and prepare those forces for deployment. Installations will serve as staging and embarkation ports to aid in processing and moving deploying units or support off-post facilities involved in these activities.

Full mobilization occurs when the US Congress declares war or a national emergency. It involves mobilizing all units in the force structure, all individual reservists, and the material resources needed for these units. Total mobilization involves expanding the armed forces beyond the approved force structure as well as mobilizing all national resources, including production facilities, to round out and sustain the force.

MOI	Methods of Instruction
MOU	memorandum of understanding
MOUT	Military Operations on Urbanized Terrain
MP	military police
MPRC	multipurpose range complex
MPTR	multipurpose training range
MSB	main support battalion
Msl	missile
MTA	major training area
MTOE	modified table of organization and equipment
MTP	mission training plan
NAV	Navigation
NBC	nuclear, biological, chemical
NCOES	Noncommissioned Officer Education System
NEPA	National Environmental Policy Act (of 1969)
NHPA	National Historic Preservation Act

OCS	Officer Candidate School
ODCSOPS	Office of the Deputy Chief of Staff for Operations and Plans
OPFOR	opposing force
Opns	Operations
Opr	Operator
Ops	Operations
OPTEMPO	Operating tempo
OSD	Office of the Secretary of Defense
OSUT	One Station Unit Training
Pam	Pamphlet
PE	Practical exercise
PGS	Precision Gunnery System
PLGR	Precision Lightweight GPS Receiver
Plt	Platoon
PMCS	Preventive Maintenance Checks and Services
POL	petroleum, oil, and lubricants
POM	program objective memorandum
PSYOPS	psychological operations
PZ	Pick-up Zone
QM	Quartermaster
Range	Areas which are controlled and restricted for firing live ammunition from direct fire or line of sight weapons at targets within the controlled area. Typically, a range has left and right boundaries that extend from the firing line forward to just past the last target array. Training ranges are normally reserved and equipped for practice and qualification in weapons delivery and shooting at targets. Further, training ranges constitute a functional complex that normally includes a range control tower with associated firing points,

lanes or pits, a cleared or graded area, target system emplacements, and a firing flag and flagpole, in addition to equipment-in-place such as target control systems, target systems, targets and fixed public address system components. A range could include area for back blast safety zones which can have a secondary use as non-duded impact area or maneuver area. A modernized or automated range is equipped to systematically control (electronic, radio, pneumatic) the targets, score the target hits, and provide the user a digital, print, or audio/visual afteraction report for evaluation purposes.

RC	Reserve Component
RCRA	Resource Conservation and Recovery Act
Rcy	recovery
RDP	RTLTP development plan
Recon	Reconnaissance
REPR	Real estate planning report
Reserve Components (RC)	The US Army Reserve (USAR) and the US Army National Guard (ARNG).
RFMSS	Range Facility Managers Support System
ROTC	Reserve Officers' Training Corps
Rpr	Repairer
Rqmt	Requirement
RRPB	Requirements Review and Prioritization Board
RSTA	Reconnaissance, Surveillance, & Target Acquisition
RTLTP	Range and training land program
SAIA	Sikes Act and the Sikes Act Improvement Act
SATCOM	Satellite Communications
S&T	supply and transport
SDZ	surface danger zone

SECARMY	Secretary of the Army
Sep	Separate
SF	special forces
SHORAD	short range air defense
Sig	Signal
SIGINT	signal intelligence
SP	self-propelled
Spec	Specialist
Spt	Support
Sqdn	Squadron
sq ft	square foot
STRAC	Standards in Training Commission
STX	Situational Training Exercise
Subcaliber ammunition	Practice ammunition of a caliber smaller than standard for the gun on which practice is being given. Subcaliber ammunition is economical and may be fired in relatively crowded areas. It is used with special subcaliber equipment to simulate firing conditions with standard ammunition.
Surface danger zone (SDZ)	The area designated on the ground of a training complex (to include associated safety areas) for the vertical and lateral containment of projectiles, fragments, debris, and components resulting from the firing or detonation of weapon systems. Army Regulation 385-63 describes and illustrates weapon-system SDZs.
surv	Surveillance
Svc	Service
Sys	System
T	Towed

TADSS	training aids, devices, simulators, and simulations
TBD	To be determined
TC	training circular
TES	tactical engagement system
TEWT	training exercise without troops
tng	Training
TOE	table of organization and equipment
TRADOC	(US Army) Training and Doctrine Command
Training Land Throughput Requirements	<p>TOE/MTOE. To determine, identify the type of units on each installation. Select one unit type as representing all units of that type (e.g. one type armor battalion represents all armor battalions). Using the ATLAM process, calculate the annual maneuver area requirements for each type unit found in the tables of Appendix A, TC 25-1. These tables identify the type unit, ARTEP and missions, maneuver area to accomplish the mission in square kilometers (km²), repetitions required annually, and the number of days per repetition. The result is the maneuver area required per mission. Then total the missions by type unit resulting in the unit's annual maneuver area requirements (km²). To determine the total installation's maneuver area throughput requirement, add the installation's force structure (TOE/MTOE unit) maneuver requirements.</p> <p>TDA. For TDA units (other than institutions) on the installation, first, determine the total TDA strength. Divide that strength by 200 to determine company-sized units on the installation. Each company-size unit is provided an annual maneuver area of 10 km² x days to conduct land navigation training and common task tesking.</p> <p>Institution. Review the current approved POIs to identify courses and course modules containing training events requiring maneuver land. From the POI identify the length (days) of the training event and the size and type of maneuver area required to train the event (schools must identify). Using the Army Training Request and Reservation System (ATRRS), determine the number of sections per course and courses per year to train that event. The result is the annual km² days for the course. Total all courses</p>

to determine the total maneuver area requirement.

Training aids, devices, simulators, and simulations (TADSS)	A term that includes training range and combat training center (CTC) instrumentation, tactical engagement simulation (TES), battle simulation, targets, training-unique ammunition, and dummy, drill, and inert munitions. TADSS are subject to the public laws and regulatory guidance governing the acquisition of materiel.
TRANS	Transportation
TRC	training readiness condition
TRI	Training Requirements Integration
TWGSS	Tank Weapons Gunnery Simulation Sytem
UAV	Unmanned Aerial Vehicle
UIC	unit identification code
United States National Guard	The term Nation Guard includes the Army and Air National Guards of the fifty states, the Distric of Columbia, the Commonwealth of Puerto Rico, and the Territories of Guam and the Virgin Islands.
US	United States
USAIS	United States Army Infantry School
USMC	United States Marine Corps
Veh	vehicle
WO	Warrant Officer
WOBC	Warrant Officer Basic Course
Wtr	Water

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TC 25-8. *Training Ranges*. 25 Feb 92.

Section II

Required Documents

This document must be available to users of this publication.

DA Form 2028. *Recommended Changes to Publications and Blank Forms*. Feb 1974.

TRADOC Mobilization and Operations Planning and Execution System
(TMOPES)

Section III

Recommended Readings

This publication contains relevant supplemental information.

Aviation Administration Handbook 7400.2

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25 JUNE 2001

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