



DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
3000 MARINE CORPS PENTAGON
WASHINGTON, DC 20350-3000

NAVMC 3500.7A
C 465
6 Nov 2012

NAVMC 3500.7A

From: Commandant of the Marine Corps
To: Distribution List

Subj: ARTILLERY TRAINING AND READINESS (T&R) MANUAL

Ref: (a) MCO P3500.72A
(b) MCO 1553.3A
(c) MCO 3400.3F
(d) MCO 3500.27B W/Erratum
(e) MCRP 3-0A
(f) MCRP 3-0B
(g) MCO 1553.2B

Encl: (1) NAVMC 3500.7A

1. Purpose. Per references (a), this T&R Manual establishes required standards, regulations and policies regarding the training of Marines and assigned Navy personnel in the Artillery occupational field.

2. Cancellation. NAVMC 3500.7

3. Scope

a. The Core Capability Mission Essential Task List (METL) in this Manual is used in Defense Readiness Reporting System (DRRS) for assessment and reporting of unit readiness. Units achieve training readiness for reporting in DRRS by gaining and sustaining proficiency in the training events in this manual at both collective (unit) and individual levels.

b. Per reference (b), commanders will conduct an internal assessment of the unit's ability to execute its mission and develop long-, mid-, and short-range training plans to sustain proficiency and correct deficiencies. Training plans will incorporate these events to standardize training and provide objective assessment of progress toward attaining combat readiness. Commanders will keep records at the unit and individual levels to record training achievements, identify training gaps and document objective assessments of readiness associated with training Marines and assigned Navy personnel. Commanders will use reference (c) to incorporate Nuclear, Biological, and Chemical Defense (NBCD) training into training plans and reference (d) to integrate Operational Risk Management (ORM). References (e) and (f) provide amplifying information for effective planning and management of training within the unit.

c. Formal school and training detachment commanders will use references (a) and (g) to ensure programs of instruction meet skill training

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

NOV 06 202

requirements established in this Manual and provide career progression training in the events designated for initial training in the formal school environment.

4. Information. Commanding General (CG), Training and Education Command (TECOM) will update this T&R Manual as necessary to provide current and relevant training standards to commanders and to ensure a current Core Capabilities METL is available for use in DRRS. All questions pertaining to the Marine Corps Ground T&R Program and Unit Training Management should be directed to: CG, TECOM, Marine Air Ground Task Force Training and Education Standards Division (MTESD), 1019 Elliot Road, Quantico, Virginia 22134.

5. Command. This Manual is applicable to the Marine Corps Total Force.

6. Certification. Reviewed and approved this date.



T. M. MURRAY
By direction

DISTRIBUTION: PCN 10033194300

Copy to: 7000260 (2)
8145001 (1)

LOCATOR SHEET

Subj: ARTILLERY TRAINING AND READINESS (T&R) MANUAL

Location: _____
(Indicate location(s) of copy(ies) of this Manual.)

RECORD OF CHANGES

Log completed change action as indicated.

Change Number	Date of Change	Date Entered	Signature of Person Incorporating the Change

ARTILLERY T&R MANUAL

TABLE OF CONTENTS

CHAPTER

1 OVERVIEW

2 MISSION ESSENTIAL TASKS MATRIX

3 REGIMENT TO PLATOON COLLECTIVE EVENTS

4 GUNS COLLECTIVE EVENTS

5 EFSS COLLECTIVE EVENTS

6 HIMARS COLLECTIVE EVENTS

7 TAP COLLECTIVE EVENTS

8 FDC COLLECTIVE EVENTS

9 FST COLLECTIVE EVENTS

10. MOS 0802 INDIVIDUAL EVENTS

11. MOS 0803 INDIVIDUAL EVENTS

12. MOS 0811 INDIVIDUAL EVENTS

13. EFSS INDIVIDUAL EVENTS

14. MOS 0814 INDIVIDUAL EVENTS

15. MOS 0842 INDIVIDUAL EVENTS

16. MOS 0844 INDIVIDUAL EVENTS

17. MOS 0847 INDIVIDUAL EVENTS

18. MOS 0848 INDIVIDUAL EVENTS

19. MOS 0861 INDIVIDUAL EVENTS

APPENDICES

A ACRONYMS AND ABBREVIATIONS

B TERMS AND DEFINITIONS

C SIMULATIONS

D AMMUNITION

ARTILLERY T&R MANUAL

CHAPTER 1

OVERVIEW

	<u>PARAGRAPH</u>	<u>PAGE</u>
INTRODUCTION.	1000	1-2
UNIT TRAINING	1001	1-2
UNIT TRAINING MANAGEMENT.	1002	1-3
SUSTAINMENT AND EVALUATION OF TRAINING.	1003	1-3
ORGANIZATION.	1004	1-4
T&R EVENT CODING.	1005	1-4
COMBAT READINESS PERCENTAGE.	1006	1-5
EVALUATION-CODED (E-CODED) EVENTS	1007	1-6
CRP CALCULATION	1008	1-6
T&R EVENT COMPOSITION	1009	1-7
CBRND TRAINING.	1010	1-9
NIGHT TRAINING.	1011	1-10
OPERATIONAL RISK MANAGEMENT (ORM)	1012	1-10
APPLICATION OF SIMULATION	1013	1-11
MARINE CORPS GROUND T&R PROGRAM	1014	1-11

ARTILLERY T&R MANUAL

CHAPTER 1

OVERVIEW

1000. INTRODUCTION

1. The T&R Program is the Corps' primary tool for planning, conducting and evaluating training, and assessing training readiness. Subject Matter Experts (SMEs) from the operating forces developed core capability Mission Essential Task Lists (METLs) for ground communities derived from the Marine Corps Task List (MCTL). T&R Manuals are built around these METLs and all events contained in T&R Manuals relate directly to this METL. This comprehensive T&R Program will help to ensure the Marine Corps continues to improve its combat readiness by training more efficiently and effectively. Ultimately, this will enhance the Marine Corps' ability to accomplish real-world missions.

2. The T&R Manual contains the individual and collective training requirements to prepare units to accomplish their combat mission. The T&R Manual is not intended to be an encyclopedia that contains every minute detail of how to accomplish training. Instead, it identifies the minimum standards that Marines must be able to perform in combat. The T&R Manual is a fundamental tool for commanders to build and maintain unit combat readiness. Using this tool, leaders can construct and execute an effective training plan that supports the unit's METL. More detailed information on the Marine Corps Ground T&R Program is found in reference (a).

1001. UNIT TRAINING

1. The training of Marines to perform as an integrated unit in combat lies at the heart of the T&R program. Unit and individual readiness are directly related. Individual training and the mastery of individual core skills serve as the building blocks for unit combat readiness. A Marine's ability to perform critical skills required in combat is essential. However, it is not necessary to have all individuals within a unit fully trained in order for that organization to accomplish its assigned tasks. Manpower shortfalls, temporary assignments, leave, or other factors outside the commander's control, often affect the ability to conduct individual training. During these periods, unit readiness is enhanced if emphasis is placed on the individual training of Marines on-hand. Subsequently, these Marines will be mission ready and capable of executing as part of a team when the full complement of personnel is available.

2. Commanders will ensure that all tactical training is focused on their combat mission. The T&R Manual is a tool to help develop the unit's training plan. In most cases, unit training should focus on achieving unit proficiency in the core capabilities METL. However, commanders will adjust their training focus to support METLs associated with a major OPLAN/CONPLAN or named operation as designated by their higher commander and reported

accordingly in the Defense Readiness Reporting System (DRRS). Tactical training will support the METL in use by the commander and be tailored to meet T&R standards. Commanders at all levels are responsible for effective combat training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be over emphasized.

3. Commanders will provide personnel the opportunity to attend formal and operational level courses of instruction as required by this Manual. Attendance at all formal courses must enhance the warfighting capabilities of the unit as determined by the unit commander.

1002. UNIT TRAINING MANAGEMENT

1. Unit Training Management (UTM) is the application of the Systems Approach to Training (SAT) and the Marine Corps Training Principles. This is accomplished in a manner that maximizes training results and focuses the training priorities of the unit in preparation for the conduct of its wartime mission.

2. UTM techniques, described in references (b) and (e), provide commanders with the requisite tools and techniques to analyze, design, develop, implement, and evaluate the training of their unit. The Marine Corps Training Principles, explained in reference (b), provide sound and proven direction and are flexible enough to accommodate the demands of local conditions. These principles are not inclusive, nor do they guarantee success. They are guides that commanders can use to manage unit-training programs. The Marine Corps training principles are:

- Train as you fight
- Make commanders responsible for training
- Use standards-based training
- Use performance-oriented training
- Use mission-oriented training
- Train the MAGTF to fight as a combined arms team
- Train to sustain proficiency
- Train to challenge

3. To maintain an efficient and effective training program, leaders at every level must understand and implement UTM. Guidance for UTM and the process for establishing effective programs are contained in references (a) through (g).

1003. SUSTAINMENT AND EVALUATION OF TRAINING

1. The evaluation of training is necessary to properly prepare Marines for combat. Evaluations are either formal or informal, and performed by members of the unit (internal evaluation) or from an external command (external evaluation).

2. Marines are expected to maintain proficiency in the training events for their MOS at the appropriate grade or billet to which assigned. Leaders are responsible for recording the training achievements of their Marines.

Whether it involves individual or collective training events, they must ensure proficiency is sustained by requiring retraining of each event at or before expiration of the designated sustainment interval. Performance of the training event, however, is not sufficient to ensure combat readiness. Leaders at all levels must evaluate the performance of their Marines and the unit as they complete training events, and only record successful accomplishment of training based upon the evaluation. The goal of evaluation is to ensure that correct methods are employed to achieve the desired standard, or the Marines understand how they need to improve in order to attain the standard. Leaders must determine whether credit for completing a training event is recorded if the standard was not achieved. While successful accomplishment is desired, debriefing of errors can result in successful learning that will allow ethical recording of training event completion. Evaluation is a continuous process that is integral to training management and is conducted by leaders at every level and during all phases of planning and the conduct of training. To ensure training is efficient and effective, evaluation is an integral part of the training plan. Ultimately, leaders remain responsible for determining if the training was effective.

3. The purpose of formal and informal evaluation is to provide commanders with a process to determine a unit's/Marine's proficiency in the tasks that must be performed in combat. Informal evaluations are conducted during every training evolution. Formal evaluations are often scenario-based, focused on the unit's METs, based on collective training standards, and usually conducted during higher-level collective events. References (a) and (f) provide further guidance on the conduct of informal and formal evaluations using the Marine Corps Ground T&R Program.

1004. ORGANIZATION

1. T&R Manuals are organized in one of two methods: unit-based or community-based. Unit-based T&R Manuals are written to support a type of unit (Infantry, Artillery, Tanks, etc.) and contain both collective and individual training standards. Community-based are written to support an Occupational Field, a group of related Military Occupational Specialties (MOSs), or billets within an organization (EOD, NBC, Intel, etc.), and usually only contain individual training standards. T&R Manuals are comprised of chapters that contain unit METs, collective training standards (CTS), and individual training standards (ITS) for each MOS, billet, etc.

2. The Artillery T&R Manual is a unit-based manual comprised of 19 chapters. Chapter 2 lists the Core Capability METs and the related E-coded events. Chapters 3 through 9 contain collective events. Chapters 10 and 19 contain individual events.

1005. T&R EVENT CODING

1. T&R events are coded for ease of reference. Each event has up-to a 4-4-4-digit identifier. The first up-to four digits are referred to as a "community" and represent the unit type or occupation (ARTY, 0802, 0811, etc.). The second up-to four digits represent the functional or duty area

(GUNS, FSPT, GNRV, etc.). The last four digits represent the level and sequence of the event.

2. The T&R levels are illustrated in Figure 1. An example of the T&R coding used in this Manual is shown in Figure 2.

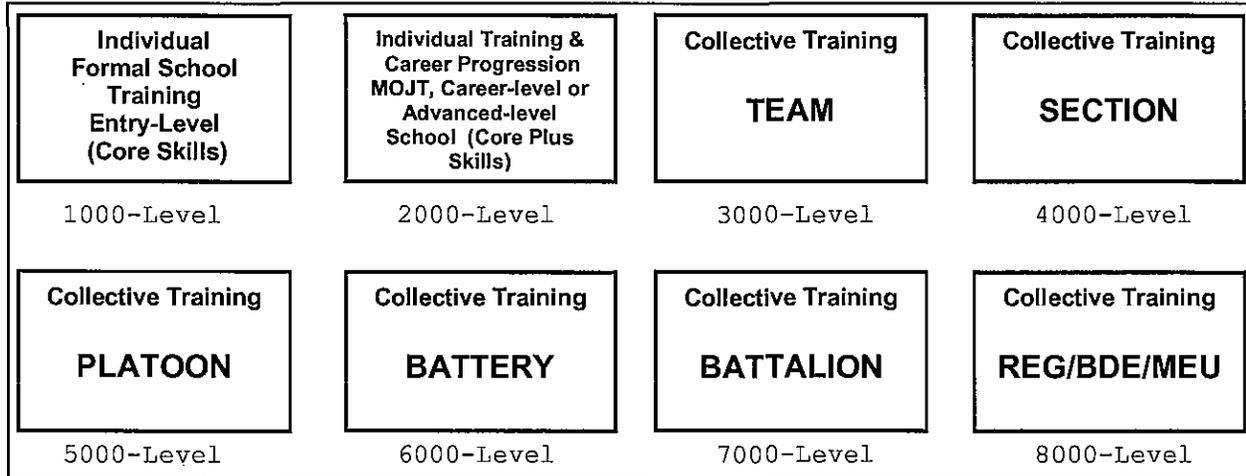


Figure 1: T&R Event Levels

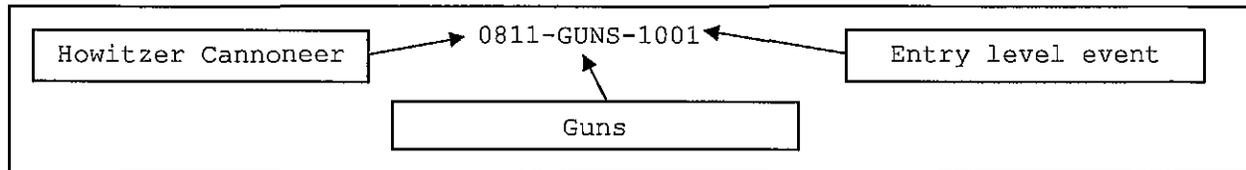


Figure 2: T&R Event Coding

1006. COMBAT READINESS PERCENTAGE

1. The Marine Corps Ground T&R Program includes processes to assess readiness of units and individual Marines. Every unit in the Marine Corps maintains a basic level of readiness based on the training and experience of the Marines in the unit. Even units that never trained together are capable of accomplishing some portion of their missions. Combat readiness assessment does not associate a quantitative value for this baseline of readiness, but uses a "Combat Readiness Percentage", as a method to provide a concise descriptor of the recent training accomplishments of units and Marines.

2. Combat Readiness Percentage (CRP) is the percentage of required training events that a unit or Marine accomplishes within specified sustainment intervals.

3. In unit-based T&R Manuals, unit combat readiness is assessed as a percentage of the successfully completed and current (within sustainment interval) key training events called "Evaluation-Coded" (E-Coded) Events. E-Coded Events and unit CRP calculation are described in follow-on paragraphs.

CRP achieved through the completion of E-Coded Events is directly relevant to readiness assessment in DRRS.

4. Individual combat readiness, in both unit-based and community-based T&R Manuals, is assessed as the percentage of required individual events in which a Marine is current. This translates as the percentage of training events for his/her MOS and grade (or billet) that the Marine successfully completes within the directed sustainment interval. Individual skills are developed through a combination of 1000-level training (entry-level formal school courses), individual on-the-job training in 2000-level events, and follow-on formal school training. Skill proficiency is maintained by retraining in each event per the specified sustainment interval.

1007. EVALUATION-CODED (E-CODED) EVENTS

1. Unit-type T&R Manuals can contain numerous unit events, some for the whole unit and others for integral parts that serve as building blocks for training. To simplify training management and readiness assessment, only collective events that are critical components of a mission essential task (MET), or key indicators of a unit's readiness, are used to generate CRP for a MET. These critical or key events are designated in the T&R Manual as Evaluation-Coded (E-Coded) events. Formal evaluation of unit performance in these events is recommended because of their value in assessing combat readiness. Only E-Coded events are used to calculate CRP for each MET.

2. The use of a METL-based training program allows the commander discretion in training. This makes the T&R Manual a training tool rather than a prescriptive checklist.

1008. CRP CALCULATION

1. Collective training begins at the 3000 level (team, crew or equivalent). Unit training plans are designed to accomplish the events that support the unit METL while simultaneously sustaining proficiency in individual core skills. Using the battalion-based (unit) model, the battalion (7000-level) has collective events that directly support a MET on the METL. These collective events are E-Coded and the only events that contribute to unit CRP. This is done to assist commanders in prioritizing the training toward the METL, taking into account resource, time, and personnel constraints.

2. Unit CRP increases after the completion of E-Coded events. The number of E-Coded events for the MET determines the value of each E-Coded event. For example, if there are 4 E-Coded events for a MET, each is worth 25% of MET CRP. MET CRP is calculated by adding the percentage of each completed and current (within sustainment interval) E-Coded training event. The percentage for each MET is calculated the same way and all are added together and divided by the number of METS to determine unit CRP. For ease of calculation, we will say that each MET has 4 E-Coded events, each contributing 25% towards the completion of the MET. If the unit has completed and is current on three of the four E-Coded events for a given MET, then they have completed 75% of the MET. The CRP for each MET is added

together and divided by the number of METS to get unit CRP; unit CRP is the average of MET CRP.

For Example:

MET 1: 75% complete (3 of 4 E-Coded events trained)
MET 2: 100% complete (6 of 6 E-Coded events trained)
MET 3: 25% complete (1 of 4 E-Coded events trained)
MET 4: 50% complete (2 of 4 E-Coded events trained)
MET 5: 75% complete (3 of 4 E-Coded events trained)

To get unit CRP, simply add the CRP for each MET and divide by the number of METS:

MET CRP: $75 + 100 + 25 + 50 + 75 = 325$

Unit CRP: 325 (total MET CRP) / 5 (total number of METS) = 65%

1009. T&R EVENT COMPOSITION

1. This section explains each of the components of a T&R event. These items are included in all events in each T&R Manual.

a. Event Code (see Sect 1006). The event code is a 4-4-4 character set. For individual training events, the first 4 characters indicate the occupational function. The second 4 characters indicate functional area (TAC, CBTS, VOPS, etc.). The third 4 characters are simply a numerical designator for the event.

b. Event Title. The event title is the name of the event.

c. E-Coded. This is a "yes/no" category to indicate whether or not the event is E-Coded. If yes, the event contributes toward the CRP of the associated MET. The value of each E-Coded event is based on number of E-Coded events for that MET. Refer to paragraph 1008 for detailed explanation of E-Coded events.

d. Supported MET(s). List all METs that are supported by the training event.

e. Sustainment Interval. This is the period, expressed in number of months, between evaluation or retraining requirements. Skills and capabilities acquired through the accomplishment of training events are refreshed at pre-determined intervals. It is essential that these intervals are adhered to in order to ensure Marines maintain proficiency.

f. Billet. Individual training events may contain a list of billets within the community that are responsible for performing that event. This ensures that the billet's expected tasks are clearly articulated and a Marine's readiness to perform in that billet is measured.

g. Grade. Each individual training event will list the rank(s) at which Marines are required to learn and sustain the training event.

h. Initial Training Setting. For Individual T&R Events only, this specifies the location for initial instruction of the training event in one of three categories (formal school, managed on-the-job training, distance learning). Regardless of the specified Initial Training Setting, any T&R event may be introduced and evaluated during managed on-the-job training.

(1) "FORMAL" - When the Initial Training Setting of an event is identified as "FORMAL" (formal school), the appropriate formal school or training detachment is required to provide initial training in the event. Conversely, formal schools and training detachments are not authorized to provide training in events designated as Initial Training Setting "MOJT" or "DL." Since the duration of formal school training must be constrained to optimize Operating Forces' manning, this element provides the mechanism for Operating Forces' prioritization of training requirements for both entry-level (1000-level) and career-level (2000-level) T&R Events. For formal schools and training detachments, this element defines the requirements for content of courses.

(2) "DL" - Identifies the training event as a candidate for initial training via a Distance Learning product (correspondence course or MarineNet course).

(3) "MOJT" - Events specified for Managed On-the-Job Training are to be introduced to Marines, and evaluated, as part of training within a unit by supervisory personnel.

i. Event Description. Provide a description of the event purpose, objectives, goals, and requirements. It is a general description of an action requiring learned skills and knowledge (e.g. Camouflage the M1A1 Tank).

j. Condition. Describe the condition(s), under which tasks are performed. Conditions are based on a "real world" operational environment. They indicate what is provided (equipment, materials, manuals, aids, etc.), environmental constraints, conditions under which the task is performed, and any specific cues or indicators to which the performer must respond. When resources or safety requirements limit the conditions, this is stated.

k. Standard. The standard indicates the basis for judging effectiveness of the performance. It consists of a carefully worded statement that identifies the proficiency level expected when the task is performed. The standard provides the minimum acceptable performance parameters and is strictly adhered to. The standard for collective events is general, describing the desired end-state or purpose of the event. While the standard for individual events specifically describe to what proficiency level in terms of accuracy, speed, sequencing, quality of performance, adherence to procedural guidelines, etc., the event is accomplished.

l. Event Components. Describe the actions composing the event and help the user determine what must be accomplished and to properly plan for the event.

m. Prerequisite Events. Prerequisites are academic training or other T&R events that must be completed prior to attempting the task. They are

lower-level events or tasks that give the individual/unit the skills required to accomplish the event. They can also be planning steps, administrative requirements, or specific parameters that build toward mission accomplishment.

n. Chained Events. Collective T&R events are supported by lower-level collective and individual T&R events. This enables unit leaders to effectively identify subordinate T&R events that ultimately support specific mission essential tasks. When the accomplishment of any upper-level events, by their nature, result in the performance of certain subordinate and related events, the events are "chained." The completion of chained events will update sustainment interval credit (and CRP for E-Coded events) for the related subordinate level events.

o. Related Events. Provide a list of all Individual Training Standards that support the event.

p. References. The training references are utilized to determine task performance steps, grading criteria, and ensure standardization of training procedures. They assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion. References are also important to the development of detailed training plans.

q. Distance Learning Products (IMI, CBT, MCI, etc.). Include this component when the event can be taught via one of these media methods vice attending a formal course of instruction or receiving MOJT.

r. Support Requirements. This is a list of the external and internal support the unit and Marines will need to complete the event. The list includes, but is not limited to:

- Range(s)/Training Area
- Ordnance
- Equipment
- Materials
- Other Units/Personnel
- Other Support Requirements

s. Miscellaneous. Provide any additional information that assists in the planning and execution of the event. Miscellaneous information may include, but is not limited to:

- Admin Instructions
- Special Personnel Certifications
- Equipment Operating Hours
- Road Miles

2. Community-based T&R Manuals have several additional components not found in unit-based T&R manuals. These additions do not apply to this T&R Manual.

1010. CBRND TRAINING

1. All personnel assigned to the operating force must be trained in chemical, biological, radiological, and nuclear defense (CBRND), in order to survive and continue their mission in a CBRN environment. Individual proficiency standards are defined as survival and basic operating standards. Survival standards are those that the individual must master in order to survive a CBRN incident. Basic operating standards are those that the individual, and collectively the unit, must perform to continue operations in a CBRND environment.
2. CBRN Officers and Specialists are instrumental in integrating realistic scenarios/situations that challenge units' ability to operate in a CBRN environment. Units should train under CBRND conditions whenever possible. Per reference (c), all units must be capable of accomplishing their assigned mission in a contaminated environment.

1011. NIGHT TRAINING

1. While it is understood that all personnel and units of the operating force are capable of performing their assigned mission in "every climate and place," current doctrine emphasizes the requirement to perform assigned missions at night and during periods of limited visibility. Basic skills are significantly more difficult when visibility is limited.
2. To ensure units are capable of accomplishing their mission they must train under the conditions of limited visibility. Units should strive to conduct all events in this T&R Manual during both day and night/limited visibility conditions. When there is limited training time available, night training should take precedence over daylight training, contingent on individual, crew, and unit proficiency.

1012. OPERATIONAL RISK MANAGEMENT (ORM)

1. ORM is a process that enables commanders to plan for and minimize risk while still accomplishing the mission. It is a decision making tool used by Marines at all levels to increase operational effectiveness by anticipating hazards and reducing the potential for loss, thereby increasing the probability of a successful mission. ORM minimizes risks to acceptable levels, commensurate with mission accomplishment.
2. Commanders, leaders, maintainers, planners, and schedulers will integrate risk assessment in the decision-making process and implement hazard controls to reduce risk to acceptable levels. Applying the ORM process will reduce mishaps, lower costs, and provide for more efficient use of resources. ORM assists the commander in conserving lives and resources and avoiding unnecessary risk, making an informed decision to implement a course of action (COA), identifying feasible and effective control measures where specific measures do not exist, and providing reasonable alternatives for mission accomplishment. Most importantly, ORM assists the commander in determining the balance between training realism and unnecessary risks in training, the impact of training operations on the environment, and the adjustment of training plans to fit the level of proficiency and experience of

Sailors/Marines and leaders. Further guidance for ORM is found in references (b) and (d).

1013. APPLICATION OF SIMULATION

1. Simulations/Simulators and other training devices shall be used when they are capable of effectively and economically supplementing training on the identified training task. Particular emphasis shall be placed on simulators that provide training that might be limited by safety considerations or constraints on training space, time, or other resources. When deciding on simulation issues, the primary consideration shall be improving the quality of training and consequently the state of readiness. Potential savings in operating and support costs normally shall be an important secondary consideration.

2. Each training event contains information relating to the applicability of simulation. If simulator training applies to the event, then the applicable simulator(s) is/are listed in the "Simulation" section and the CRP for simulation training is given. This simulation training can either be used in place of live training, at the reduced CRP indicated; or can be used as a precursor training for the live event, i.e., weapons simulators, convoy trainers, observed fire trainers, etc. It is recommended that tasks be performed by simulation prior to being performed in a live-fire environment. However, in the case where simulation is used as a precursor for the live event, then the unit will receive credit for the live event CRP only. If a tactical situation develops that precludes performing the live event, the unit would then receive credit for the simulation CRP.

1014. MARINE CORPS GROUND T&R PROGRAM

1. The Marine Corps Ground T&R Program continues to evolve. The vision for Ground T&R Program is to publish a T&R Manual for every readiness-reporting unit so that core capability METs are clearly defined with supporting collective training standards, and to publish community-based T&R Manuals for all occupational fields whose personnel augment other units to increase their combat and/or logistic capabilities. The vision for this program includes plans to provide a Marine Corps training management information system that enables tracking of unit and individual training accomplishments by unit commanders and small unit leaders, automatically computing CRP for both units and individual Marines based upon MOS and rank (or billet). Linkage of T&R Events to the Marine Corps Task List (MCTL), through the core capability METs, has enabled objective assessment of training readiness in the DRRS.

2. DRRS measures and reports on the readiness of military forces and the supporting infrastructure to meet missions and goals assigned by the Secretary of Defense. With unit CRP based on the unit's training toward its METs, the CRP will provide a more accurate picture of a unit's readiness. This will give fidelity to future funding requests and factor into the allocation of resources. Additionally, the Ground T&R Program will help to ensure training remains focused on mission accomplishment and that training readiness reporting is tied to units' METLs.

ARTILLERY T&R MANUAL

CHAPTER 2

MISSION ESSENTIAL TASKS MATRIX

	<u>PARAGRAPH</u>	<u>PAGE</u>
ARTILLERY MISSION ESSENTIAL TASK LIST (METL)	2000	2-2

ARTILLERY T&R MANUAL

CHAPTER 2

MISSION ESSENTIAL TASKS MATRIX

2000. ARTILLERY MISSION ESSENTIAL TASK LIST (METL)

1. The list below includes the core capability METL and E-Coded events that support each MET. All METs are derived from the Marine Corps Task List (MCTL) and approved by the Artillery Operational Advisory Group for DRRS reporting. Details for each E-Coded event are detailed in Chapter 3. The following are the Mission Essential Tasks for Regiment and Battalion:

- MET 1** MCT 1.1.2 Provide Task-Organized Forces
- MET 2** MCT 3.2.1 Conduct Fire Support Tasks
- MET 3** MCT 3.2.4 Conduct Ground Delivered Fires
- MET 4** MCT 1.3.2.X Support Amphibious Operations
- MET 5** MCT 4.10 Conduct Civil Military Operations (10th & 11th Marines only)
- MET 6** MCT 1.1.2.3 Provide Headquarters Personnel and Infrastructure
- MET 7** MCT 3.2.4.5 Conduct Survey Operations
- MET 8** MCT 5 Exercise Command and Control
- MET 9** MCT 3.2.4.2 Conduct Indirect Fires
- MET 10** MCT 3.2.4.3 Conduct Counter-fire Operations

2. Artillery Regiment METL.

- MET 1** MCT 1.1.2 Provide Task-Organized Forces
- MET 2** MCT 3.2.1 Conduct Fire Support Tasks
- MET 3** MCT 3.2.4 Conduct Ground Delivered Fires
- MET 4** MCT 1.3.2.X Support Amphibious Operations
- MET 5** MCT 4.10 Conduct Civil Military Operations

3. Artillery Headquarters Battery Regiment METL.

- MET 6** MCT 1.1.2.3 Provide Headquarters Personnel and Infrastructure
- MET 7** MCT 3.2.4.5 Conduct Survey Operations
- MET 8** MCT 5 Exercise Command and Control
- MET 5** MCT 4.10 Conduct Civil-Military Operations

4. Artillery Battalion (Cannon) METL.

- MET 1** MCT 1.1.2 Provide Task-Organized Forces
- MET 2** MCT 3.2.1 Conduct Fire Support Tasks
- MET 3** MCT 3.2.4 Conduct Ground Delivered Fires
- MET 4** MCT 1.3.2.X Support Amphibious Operations

5. Artillery Battalion (HIMARS) METL.

- MET 1** MCT 1.1.2 Provide Task-Organized Forces
- MET 9** MCT 3.2.4.2 Conduct Indirect Fires

MET 10 MCT 3.2.4.3 Conduct Counterfire Operations

6. Since many of the METs are duplicated the matrix below is consolidated and reflects the appropriate supporting E-Coded Events for each MET.

MET 1 - MCT 1.1.2 Provide Task-Organized Forces	
ARTY-BN-7001	Conduct Fire Support Tasks
ARTY-BN-7002	Provide artillery support
HMRS-BTRY-6000	Execute digital fire mission
HMRS-BTRY-6010	Execute voice fire mission
MET 2 - MCT 3.2.1 Conduct Fire Support Tasks	
ARTY-REGT-8001	Conduct Fire Support Tasks
ARTY-BN-7001	Conduct Fire Support Tasks
MET 3 - MCT 3.2.4 Conduct Ground Delivered Fires	
ARTY-REGT-8002	Provide artillery support
ARTY-BN-7002	Provide artillery support
MET 4 - MCT 1.3.2.X Support Amphibious Operations	
ARTY-REGT-8001	Conduct Fire Support Tasks
ARTY-REGT-8002	Provide artillery support
ARTY-BN-7001	Conduct Fire Support Tasks
ARTY-BN-7002	Provide artillery support
ARTY-BN-7003	Support amphibious operations
HMRS-BN-7002	Support amphibious operations
MET 5 - MCT 4.10 Conduct Civil Military Operations	
Refer to the current NAVMC 3500.108 MAGTF Plans Training and Readiness Manual for the Civil Military Operations Individual and Collective Training Events.	
MET 6 - MCT 1.1.2.3 Provide Headquarters Personnel and Infrastructure	
ARTY-COC-5001	Conduct COC operations
ARTY-TAP-5000	Provide Field Artillery Target Acquisition Platoon (TAP) Support to the MAGTF
ARTY-HQBY-6002	Occupy a position
ARTY-HQBY-6003	Conduct Battery Defense
ARTY-HQBY-6004	Conduct a tactical march
ARTY-HQBY-6005	Sustain the battery
MET 7 - MCT 3.2.4.5 Conduct Survey Operations	
ARTY-SENS-4000	Provide Field Artillery Sensor Support to the Ground Combat Element
ARTY-RADR-4000	Provide Field Artillery RADAR support to the Ground Combat Element
MET 8 - MCT 5 Exercise Command and Control	
ARTY-COC-5001	Conduct COC operations
ARTY-FDC-4002	Conduct technical fire direction
ARTY-FDC-4003	Conduct tactical fire direction
MET 9 - MCT 3.2.4.2 Conduct Indirect Fires	
HMRS-BTRY-6000	Execute digital fire mission
HMRS-BTRY-6010	Execute voice fire mission
HMRS-BTRY-6060	Defend the battery
HMRS-BTRY-6080	Execute an emergency fire mission

HMRS-BTRY-6090	Execute digital fire mission in centralized mode
HMRS-BTRY-6100	Execute voice fire mission in centralized mode
MET 10 - 3.2.4.3 Conduct Counterfire Operations	
HMRS-BN-7001	Conduct counter-fire operations
HMRS-BTRY-6000	Execute digital fire mission
HMRS-BTRY-6010	Execute voice fire mission
HMRS-BTRY-6060	Defend the battery
HMRS-BTRY-6080	Execute an emergency fire mission
HMRS-BTRY-6090	Execute digital fire mission in centralized mode
HMRS-BTRY-6100	Execute voice fire mission in centralized mode

ARTILLERY T&R MANUAL

CHAPTER 3

COLLECTIVE EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
PURPOSE.	3000	3-2
ADMINISTRATIVE NOTES	3001	3-2
COLLECTIVE DESCRIPTION/CORE CAPABILITY	3002	3-2
INDEX OF REGIMENTAL COLLECTIVE EVENTS.	3003	3-3
REGIMENTAL COLLECTIVE EVENTS	3004	3-3
INDEX OF BATTALION COLLECTIVE EVENTS	3005	3-5
BATTALION COLLECTIVE EVENTS.	3006	3-5
INDEX OF HIMARS BATTALION COLLECTIVE EVENTS.	3007	3-7
HIMARS BATTALION COLLECTIVE EVENTS	3008	3-7
INDEX OF HEADQUARTERS BATTERY COLLECTIVE EVENTS.	3009	3-9
HEADQUARTERS BATTERY COLLECTIVE EVENTS	3010	3-9
INDEX OF BATTERY COLLECTIVE EVENTS	3011	3-13
BATTERY COLLECTIVE EVENTS.	3012	3-14
INDEX OF HIMARS BATTERY COLLECTIVE EVENTS.	3013	3-20
HIMARS BATTERY COLLECTIVE EVENTS	3014	3-20
INDEX OF PLATOON COLLECTIVE EVENTS	3015	3-29
PLATOON COLLECTIVE EVENTS.	3016	3-29

ARTILLERY T&R MANUAL

CHAPTER 3

COLLECTIVE EVENTS

3000. PURPOSE. This chapter contains collective training events for the battery, battalion, regiment and all associated sections, and illustrates the relationship between unit competencies [Mission Essential Tasks (METs)] and unit training (Collective Events). Unit training managers can isolate all training relevant to each MET and devise training to support their competencies as needed.

3001. ADMINISTRATIVE NOTES

1. Events that are matched directly to a MET are battalion and regimental level events that are the sum of events trained to by subordinate sections or units. Therefore, commanders should select which collective events will best support their training needs to increase and maintain readiness in reportable areas.

2. Each Event contains a "CONDITIONS" statement that describes internal and external support requirements the unit and Marines will need to complete the event. As artillery training areas vary greatly across the Marine Corps the focus has been placed on equipment required for each event. For all live fire events a firing point and impact area will be required which allows for the firing and impact of 155mm projectiles. Currently most impact areas do not allow for the firing of dud producing projectiles, so non-live fire training will be conducted to maintain proficiency with those special munitions. These non-live fire training evolutions will generally focus on FO Team and the FDC procedures. The local range regulations will detail artillery live fire parameters. See the web-based Range/Training Area Management System at the TECOM website for additional range/training area information as required.

3002. COLLECTIVE DESCRIPTION/CORE CAPABILITY

1. Collective training events build on individual training events which are trained in the formal schools and maintained by the small unit leaders in the Operational Forces (OPFOR).

2. Many collective events must occur simultaneously in order to allow the larger unit to accomplish its mission. This chapter will assist leaders and commanders in determining their piece in the larger whole and focus resources on standards based training and stagger event training throughout an annual training plan based on the training interval established for each event.

3. A battalion/regiment derives its combat readiness percentage from the capabilities and readiness of its subordinate units/sections. Each element within a battalion/regiment will have multiple E-Coded events that

collectively will apply to the battalion/regiment and can be used by that commander for readiness reporting in DRRS.

4. Due to constantly changing reporting situations and varying training intervals for events, section and battery E-Coded events are not specifically linked to each MET, although standards based training of these E-Coded events will positively impact unit readiness.

5. Core capabilities are inherent to the METL and linked E-Coded events.

3003. INDEX OF REGIMENTAL COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
ARTY-REGT-8001	YES	Conduct Fire Support tasks	3-3
ARTY-REGT-8002	YES	Provide artillery support	3-4

3004. REGIMENTAL COLLECTIVE EVENTS

ARTY-REGT-8001: Conduct Fire Support tasks

SUPPORTED MET(S): 2, 4

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 6 months

CONDITION: Given a tactical scenario, commander's guidance, and a scheme of maneuver.

STANDARD: In order to provide accurate fire support in accordance with the MCWP 3-42.1 Fire Support in MAGTF Operations.

EVENT COMPONENTS:

1. Support the Marine Corps Planning Process.
2. Integrate Fire Support with the Scheme of Maneuver.
3. Support the Commander's Concept of Operations.
4. Support the Targeting Process (D3A).
5. Support Forces in Contact.
6. Sustain Fire Support.

CHAINED EVENTS:

ARTY-BN-7001	ARTY-BTRY-6001	FSCC-DFST-4005
ARTY-TAP-5000	FSCC-DFST-4015	FSCC-DFST-4020
FSCC-FST-4000	FSCC-DFST-4010	ARTY-HQBY-6001

REFERENCES:

1. JP 3-02 Joint Doctrine for Amphibious Operations
2. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
3. MCWP 3-16.1 Artillery Operations
4. MCWP 3-42.1 Fire Support in MAGTF Operations
5. MCWP 5-1 Marine Corps Planning Process (MCP)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

ARTY-REGT-8002: Provide artillery support

SUPPORTED MET(S): 3, 4

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

DESCRIPTION: An artillery tactical mission is assigned. A fire support plan is provided. The regiment will perform all actions necessary to provide artillery support.

CONDITION: Given a tactical scenario, commander's guidance, and a maneuver element fire support plan.

STANDARD: In order to provide accurate fire support in accordance with the MCWP 3-16.1 Artillery Operations.

EVENT COMPONENTS:

1. Publish artillery plan(s).
2. Conduct Tactical March.
3. Plan future operations.
4. Develop targets.
5. Monitor targeting.
6. Provide counter-fires.
7. Coordinate artillery fires.
8. Conduct sensor operations.
9. Sustain the unit.

CHAINED EVENTS:

ARTY-BTRY-6002	ARTY-BTRY-6003	ARTY-BTRY-6004
ARTY-BTRY-6001	ARTY-COC-5001	ARTY-BN-7002
ARTY-TAP-5000	ARTY-BTRY-6005	ARTY-HQBY-6001

REFERENCES:

1. JP 3-02 Joint Doctrine for Amphibious Operations
2. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
3. MCWP 3-16.1 Artillery Operations
4. MCWP 3-42.1 Fire Support in MAGTF Operations
5. MCWP 5-1 Marine Corps Planning Process (MCP)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

3005. INDEX OF CANNON BATTALION COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
ARTY-BN-7001	YES	Conduct Fire Support tasks	3-5
ARTY-BN-7002	YES	Provide artillery support	3-6
ARTY-BN-7003	YES	Support amphibious operations	3-6

3006. CANNON BATTALION COLLECTIVE EVENTS

ARTY-BN-7001: Conduct Fire Support tasks

SUPPORTED MET(S): 1, 2, 4

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

CONDITION: Given a tactical scenario, commander's guidance, and a scheme of maneuver.

STANDARD: In order to provide accurate fire support in accordance with the MCWP 3-43.3 Fire Support in MAGTF Operations.

EVENT COMPONENTS:

1. Support the Targeting Process (D3A).
2. Support Forces in Contact.
3. Sustain Fire Support.
4. Support the Marine Corps Planning Process.
5. Integrate Fire Support with the Scheme of Maneuver.
6. Support the Commander's Concept of Operations.

CHAINED EVENTS:

ARTY-HQBY-6001	ARTY-TAP-5000	FSCC-BFST-4005
FSCC-BFST-4010	FSCC-BFST-4015	FSCC-BFST-4020
FSCC-CFST-4005	FSCC-CFST-4010	FSCC-CFST-4020
FSCC-CFST-4025	FSCC-RFST-4005	FSCC-RFST-4010
FSCC-RFST-4015	FSCC-RFST-4020	ARTY-BTRY-6001

REFERENCES:

1. JP 3-02 Joint Doctrine for Amphibious Operations
2. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
3. MCWP 3-16.1 Artillery Operations
4. MCWP 3-43.3 Marine Air-Ground Task Force Fires
5. MCWP 5-1 Marine Corps Planning Process (MCP)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Simulation. Yes.

ARTY-BN-7002: Provide artillery support

SUPPORTED MET(S): 1, 3, 4

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

DESCRIPTION: An artillery tactical mission is assigned. A fire support plan is provided. The battalion will perform all actions necessary to provide artillery support.

CONDITION: Given a tactical scenario, commander's guidance, and a maneuver element fire support plan.

STANDARD: In order to provide accurate fire support in accordance with the MCWP 3-16.1 Artillery Operations.

EVENT COMPONENTS:

1. Publish artillery plan(s).
2. Conduct Tactical March.
3. Plan future operations.
4. Coordinate artillery fires.
5. Conduct counter-fires.
6. Conduct sensor support operations.
7. Sustain the unit.
8. Conduct command and control.

CHAINED EVENTS:

ARTY-BTRY-6005	ARTY-RADR-4000	ARTY-SENS-4000
ARTY-COC-5001	ARTY-HQBY-6001	ARTY-BTRY-6002
ARTY-BTRY-6003	ARTY-BTRY-6004	ARTY-BTRY-6001

REFERENCES:

1. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-42.1 Fire Support in MAGTF Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

ARTY-BN-7003: Support amphibious operations

SUPPORTED MET(S): 4

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

DESCRIPTION: The command has been alerted to support a maneuver force. The supported force's OORDER or OPLAN has been received. The commander has issued his guidance that permits planning to proceed per doctrine. Intelligence information, transportation means and methods of supply have been determined. The staff conducts all actions necessary to alert subordinate units, plan, deploy, and execute an amphibious operation. This event also applies to expeditionary operations.

CONDITION: Given a tactical scenario.

STANDARD: In accordance with JP 3-02 Amphibious Operations.

EVENT COMPONENTS:

1. Support MCPP during amphibious planning.
2. Prepare the Artillery fire plan.
3. Prepare the staging plan.
4. Conduct embarkation.
5. Conduct rehearsals.
6. Conduct debarkation/assault.

CHAINED EVENTS:

ARTY-COC-5001	ARTY-HQBY-6001	ARTY-HQBY-6002
ARTY-HQBY-6003	ARTY-HQBY-6004	ARTY-HQBY-6005

REFERENCES:

1. ATP-38 Amphibious Operations
2. JP 3-02 Amphibious Operations
3. MCWP 3-16.1 Artillery Operations
4. MCWP 3-42.1 Fire Support in MAGTF Operations
5. MCWP 5-1 Marine Corps Planning Process (MCPP)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17411 Maneuver/Training Area, Amphibious Forces
Facility Code 17420 Maneuver/Training Area, Heavy Forces

3007. INDEX OF HIMARS BATTALION COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
HMRS-BN-7001	YES	Conduct Counterfire operations	3-7
HMRS-BN-7002	YES	Support amphibious operations	3-8

3008. HIMARS BATTALION COLLECTIVE EVENTS

HMRS-BN-7001: Conduct Counterfire operations

SUPPORTED MET(S): 10

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

DESCRIPTION: An artillery tactical mission is assigned and a Target Acquisition Platoon (-) is attached. A fire support plan including an artillery fire plan is provided. The battalion will perform all actions necessary to conduct counterfire operations.

CONDITION: Given a tactical scenario, commander's guidance, and a maneuver element fire support plan.

STANDARD: In order to effectively suppress enemy fire support.

EVENT COMPONENTS:

1. Publish counterfire plan.
2. Establish a counterfire cell.
3. Coordinate/deconflict counterfires.
4. Coordinate radar and sensor operations.
5. Coordinate external sensors (i.e. UAS, CAS/DAS, Recon).
6. Execute the counterfire plan.

CHAINED EVENTS:

HMRS-BTRY-6100	ARTY-COC-5001	HMRS-BTRY-6080
HMRS-BTRY-6060	HMRS-BTRY-6010	HMRS-BTRY-6000
ARTY-BTRY-6005	ARTY-BTRY-6004	ARTY-BTRY-6003
ARTY-BTRY-6002	ARTY-BTRY-6001	ARTY-TAP-5000
ARTY-RADR-4000	ARTY-SENS-4000	HMRS-BTRY-6090

REFERENCES:

1. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-42.1 Fire Support in MAGTF Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

HMRS-BN-7002: Support amphibious operations

SUPPORTED MET(S): 4

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

DESCRIPTION: The supported force's OORDER or OPLAN has been received. The commander has issued his guidance that permits planning to proceed per doctrine. Intelligence information, transportation means and methods of supply have been determined. The staff conducts all actions necessary to alert subordinate units, plan, deploy, and execute an amphibious operation. This event also applies to expeditionary operations.

CONDITION: Given a tactical scenario.

STANDARD: In accordance with JP 3-02 Amphibious Operations.

EVENT COMPONENTS:

1. Support MCPP during amphibious planning.
2. Prepare the Artillery fire plan.
3. Prepare the staging plan.
4. Conduct embarkation.
5. Conduct rehearsals.
6. Conduct debarkation/assault.

CHAINED EVENTS:

ARTY-COC-5001	ARTY-HQBY-6001	ARTY-HQBY-6002
ARTY-HQBY-6003	ARTY-HQBY-6004	ARTY-HQBY-6005
HMRS-BTRY-6020	HMRS-BTRY-6050	HMRS-BTRY-6060
HMRS-BTRY-6070		

REFERENCES:

1. ATP-38 Amphibious Operations
2. JP 3-02 Amphibious Operations
3. MCWP 3-16.1 Artillery Operations
4. MCWP 3-42.1 Fire Support in MAGTF Operations
5. MCWP 5-1 Marine Corps Planning Process (MCPP)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17411 Maneuver/Training Area, Amphibious Forces
Facility Code 17420 Maneuver/Training Area, Heavy Forces

3009. INDEX OF HEADQUARTERS BATTERY COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
ARTY-HQBY-6001	YES	Conduct amphibious operations	3-9
ARTY-HQBY-6002	YES	Occupy a position	3-10
ARTY-HQBY-6003	YES	Conduct Battery Defense	3-11
ARTY-HQBY-6004	YES	Conduct a tactical march	3-12
ARTY-HQBY-6005	YES	Sustain the battery	3-13

3010. HEADQUARTERS BATTERY COLLECTIVE EVENTS

ARTY-HQBY-6001: Support amphibious operations

SUPPORTED MET (S): 4

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

DESCRIPTION: The command has been alerted to support a maneuver force. The supported force's OORDER or OPLAN has been received. The commander has issued his guidance that permits planning to proceed per doctrine. Intelligence information, transportation means and methods of supply have been determined. The staff conducts all actions necessary to alert subordinate units, plan, deploy, and execute an amphibious operation. This event also applies to expeditionary operations.

CONDITION: Given a tactical scenario.

STANDARD: In accordance with JP 3-02 Amphibious Operations.

EVENT COMPONENTS:

1. Support MCPP during amphibious planning.
2. Prepare the Artillery fire plan.
3. Prepare the staging plan.
4. Conduct embarkation.
5. Conduct rehearsals.
6. Conduct debarkation/assault.

REFERENCES:

1. ATP-38 Amphibious Operations
2. JP 3-02 Amphibious Operations
3. MCWP 3-16.1 Artillery Operations
4. MCWP 3-42.1 Fire Support in MAGTF Operations
5. MCWP 5-1 Marine Corps Planning Process (MCPP)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17411 Maneuver/Training Area, Amphibious Forces
Facility Code 17420 Maneuver/Training Area, Heavy Forces

ARTY-HQBY-6002: Occupy a position

SUPPORTED MET (S): 6

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

CONDITION: Given the Advance party has completed the reconnaissance, selection, and preparation of new position and the main body has arrived at the release point.

STANDARD: In accordance with the timeline set in the movement order.

EVENT COMPONENTS:

1. Crosses release point at specified time.
2. Maintain security.
3. Follow track plan.
4. Vehicle guides, order of march, and routes into the new position facilitate rapid occupation.
5. Positions vehicle(s) to allow for rapid displacement.

6. Designated sites are occupied.
7. COC able to communicate with higher headquarters and supported unit.

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

ARTY-HQBY-6003: Conduct Battery Defense

SUPPORTED MET(S): 6

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

DESCRIPTION: The battery is in support of tactical operations and is responsible for defending its own position. Battery personnel conduct all actions necessary to defend the battery and safeguard personnel and equipment.

CONDITION: Given an emplaced TO&E battery and the requirement to improve the position.

STANDARD: Integrating all organic equipment and personnel into the defensive matrix.

EVENT COMPONENTS:

1. Fighting positions prepared.
2. Crew-served weapons prepared.
3. Range cards for crew-serves prepared.
4. Construct defense diagram.
5. Rotation schedules to include 24 hr operations.
6. Organize and rehearse react force.
7. Establish supplementary and alternate positions.
8. Establish medevac procedures.
9. Integrate air defense assets into the defense plan.

REFERENCES:

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
4. ST 6-50-20 Battery Executive Officer's/ Platoon Leader's Handbook

SUPPORT REQUIREMENTS:

ORDNANCE:

DODIC

Quantity

A059 Cartridge, 5.56mm Ball M855 10/Clip	200 cartridges per Marine
A063 Cartridge, 5.56mm Tracer M856 Single	500 cartridges per Battery
A064 Cartridge, 5.56mm 4 Ball M855/1 Trac	5000 cartridges per Battery
A131 Cartridge, 7.62mm 4 Ball M80/1 Trac	4000 cartridges per Battery
A518 Cartridge, Caliber .50 4 SLAP M903/1	1200 cartridges per Battery
A576 Cartridge, Caliber .50 4 API M8/1 AP	2000 cartridges per Battery
B542 Cartridge, 40mm HEDP M430/M430A1 Lin	2000 cartridges per Battery
B546 Cartridge, 40mm HEDP M433	2000 cartridges per Battery
K143 Mine, Antipersonnel M18A1 with M57 F	20 mines per Battery
L328 Signal, Cartridge Red Flare	30 flares per Battery
L495 Flare, Surface Trip M49 Series	50 flares per Battery

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Physical Constraints: Personnel are required to lift and mount heavy machine guns onto vehicles and mounts.
2. Concertina Wire, sandbags, and all other fortification items needed.

ARTY-HQBY-6004: Conduct a tactical march

SUPPORTED MET(S): 6

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

DESCRIPTION: Battery commander has issued his movement order designating the type of march (Open Column, Close Column, Infiltration Or Terrain March) and reconnaissance has been conducted.

CONDITION: Given a movement order.

STANDARD: To the designated location within the movement order time constraint.

EVENT COMPONENTS:

1. Receive March Order.
2. Maintain convoy interval.
3. Conduct appropriate immediate action drills.
4. Maintain 360-degree security.
5. Prepare vehicles for convoy defense.
6. Give convoy brief.

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Physical Constraints: Personnel are required to lift and mount heavy machine guns onto vehicles and mounts.

ARTY-HQBY-6005: Sustain the battery

SUPPORTED MET(S): 6

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

DESCRIPTION: The battery is conducting tactical operations. Battery personnel will conduct all actions necessary to maintain equipment, conduct resupply, and perform survivability tasks.

CONDITION: Given an equipped battery deployed in support of tactical operations.

STANDARD: To ensure the battery is able to conduct sustained 24-hour operations.

EVENT COMPONENTS:

1. Conduct maintenance on equipment.
2. Coordinate logistics.
3. Maintain class V small-arms ammo basic loads.
4. Perform preventive medicine services.
5. Manage Personnel.

REFERENCES:

1. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

3011. INDEX OF BATTERY COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
ARTY-BTRY-6001	YES	Conduct a tactical march	3-14
ARTY-BTRY-6002	YES	Occupy a position	3-15
ARTY-BTRY-6003	YES	Conduct Battery Defense	3-16

ARTY-BTRY-6004	YES	Execute fire mission	3-17
ARTY-BTRY-6005	YES	Sustain the battery	3-18
ARTY-BTRY-6006	YES	Support amphibious operations	3-19

3012. BATTERY COLLECTIVE EVENTS

ARTY-BTRY-6001: Conduct a tactical march

SUPPORTED MET(S): 3

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

DESCRIPTION: Battery commander has issued his movement order designating the type of march (Open Column, Close Column, Infiltration Or Terrain March) and reconnaissance has been conducted.

CONDITION: Given a movement order.

STANDARD: To the designated location within the movement order time constraint.

EVENT COMPONENTS:

1. Receive March Order.
2. Maintain convoy interval.
3. Conduct appropriate immediate action drills.
4. Maintain 360-degree security.
5. Prepare vehicles for convoy defense.
6. Give convoy brief.

CHAINED EVENTS:

ARTY-PLT-5130 ARTY-PLT-5140 ARTY-PLT-5150
ARTY-BTRY-4100 EFSS-PLT-5006 EFSS-PLT-5007
EFSS-PLT-5003

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
3. UNIT SOP Unit's Standing Operating Procedures

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Physical Constraints: Personnel are required to lift and mount heavy machine guns onto vehicles and mounts.

ARTY-BTRY-6002: Occupy a position

SUPPORTED MET(S): 3

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

CONDITION: Given the Advance party has completed the reconnaissance, selection, and preparation of new position and the main body has arrived at the release point.

STANDARD: Reporting a firing capability in a time of: 11 minutes in daylight and/or 19 minutes in darkness.

EVENT COMPONENTS:

1. Crosses release point at specified time.
2. Maintain security.
3. Follow track plan.
4. Vehicle guides, order of march, and routes into the new position facilitate rapid occupation.
5. Positions vehicle(s) to allow for rapid displacement.
6. Determine site-to-crest.
7. Designated sites are occupied.
8. Fire Direction Center can communicate with higher headquarters or supported unit

CHAINED EVENTS:

ARTY-FDC-4001	ARTY-PLT-5120	EFSS-PLT-5005
EFSS-PLT-5002	EFSS-PLT-5003	EFSS-PLT-5001

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. This task is to be completed two times: once in daylight and once in darkness within the time limits set forth above using optics.
 2. Time Starts: The first howitzer has stopped in its designated gun position.
 3. Time Stops: FIRECAP sent to higher headquarters.
 4. Physical Constraints: Marines are required to shift the howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.
-

ARTY-BTRY-6003: Conduct Battery Defense

SUPPORTED MET(S): 3

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

DESCRIPTION: The battery is in support of tactical operations and is responsible for defending its own position. Battery personnel conduct all actions necessary to defend the battery and safeguard personnel and equipment.

CONDITION: Given an emplaced TO&E battery and the requirement to improve the position.

STANDARD: Integrating all organic equipment and personnel into the defensive matrix.

EVENT COMPONENTS:

1. Fighting positions prepared.
2. Crew-served weapons prepared.
3. Range cards for howitzers and crew-serves prepared.
4. Construct defense diagram.
5. Rotation schedules to include 24 hr operations.
6. Organize and rehearse react force.
7. Establish supplementary and alternate positions.
8. Establish medevac procedures.
9. Integrate air defense assets into the defense plan.

CHAINED EVENTS:

EFSS-PLT-5005 ARTY-PLT-5120 ARTY-GUNS-4200
ARTY-GUNS-4210

REFERENCES:

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
4. ST 6-50-20 Battery Executive Officer's/ Platoon Leader's Handbook
5. Unit's Standing Operating Procedures

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
A059 Cartridge, 5.56mm Ball M855 10/Clip	200 cartridges per Marine
A063 Cartridge, 5.56mm Tracer M856 Single	500 cartridges per Battery
A064 Cartridge, 5.56mm 4 Ball M855/1 Trac	5000 cartridges per Battery
A131 Cartridge, 7.62mm 4 Ball M80/1 Trace	4000 cartridges per Battery
A518 Cartridge, Caliber .50 4 SLAP M903/1	1200 cartridges per Battery
A576 Cartridge, Caliber .50 4 API M8/1 AP	2000 cartridges per Battery
B542 Cartridge, 40mm HEDP M430/M430A1 Lin	2000 cartridges per Battery
B546 Cartridge, 40mm HEDP M433	2000 cartridges per Battery
D529 Projectile, 155mm High Explosive M79	12 projectiles per Battery

DA12 Charge, Propellant 155mm MACS M231	12 charges per Battery
DA13 Charge, Propellant 155mm MACS M232	24 charges per Battery
K143 Mine, Antipersonnel M18A1 with M57 F	20 mines per Battery
L328 Signal, Cartridge Red Flare	30 flares per Battery
L495 Flare, Surface Trip M49 Series	50 flares per Battery
N340 Fuze, Point Detonating M739/M739A1	12 fuzes per Battery
N523 Primer, Percussion M82	24 cartridges per Battery

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17650 Field Artillery Direct Fire Range
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Physical Constraints: Marines are required to lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.
2. Physical Constraints: Personnel are required to lift and mount heavy machine guns onto vehicles and mounts.
3. Concertina Wire, sandbags, and all other fortification items needed.

ARTY-BTRY-6004: Execute fire mission

SUPPORTED MET(S): 3

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

CONDITION: Given a tactical scenario.

STANDARD: To provide fires in accordance with the scheme of maneuver.

EVENT COMPONENTS:

1. Fire Emergency fire mission.
2. Process observer adjustments.
3. Receive call for fire.
4. Process the call for fire.
5. Fire Indirect fire mission.

CHAINED EVENTS:

ARTY-GUNS-4130	ARTY-GUNS-4160	ARTY-GUNS-4170
ARTY-GUNS-4190	ARTY-FDC-4002	ARTY-GUNS-4120
ARTY-GUNS-4140	ARTY-GUNS-4150	EFSS-PLT-5004

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
2. MCIP 3-16.01 Tactics, Techniques, and Procedures for Lightweight 155
3. MCTM 10407C-10/1 Operators Manual for Howitzer, Medium, 155mm, M777A2
4. MCWP 3-16.1 Artillery Operations
5. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

6. MCWP 3-16.4 Tactics, Techniques and Procedures for the Field Artillery
Manual Cannon Gunnery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M79	8 projectiles per section
DA12 Charge, Propellant 155mm MACS M231	4 charges per section
DA13 Charge, Propellant 155mm MACS M232	8 charges per section
N340 Fuze, Point Detonating M739/M739A1	8 fuzes per section
N523 Primer, Percussion M82	8 cartridges per section

RANGE/TRAINING AREA:

Facility Code 17650 Field Artillery Direct Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Physical Constraints: Marines are required to shift the howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.

ARTY-BTRY-6005: Sustain the battery

SUPPORTED MET(S): 3

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 6 months

DESCRIPTION: The battery is conducting tactical operations. Battery personnel will conduct all actions necessary to maintain equipment, conduct resupply, and perform survivability tasks.

CONDITION: Given an equipped battery deployed in support of tactical operations.

STANDARD: To ensure the battery is able to provide accurate and sustain artillery support.

EVENT COMPONENTS:

1. Conduct maintenance on equipment.
2. Coordinate logistics.
3. Maintain class V small-arms ammo basic loads.
4. Perform preventive medicine services.
5. Manage Personnel.

REFERENCES:

1. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
2. Unit's Standing Operating Procedures

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

ARTY-BTRY-6006: Support amphibious operations

SUPPORTED MET (S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

DESCRIPTION: The command has been alerted to support a maneuver force. The supported force's OORDER or OPLAN has been received. The commander has issued his guidance that permits planning to proceed per doctrine. Intelligence information, transportation means and methods of supply have been determined. The staff conducts all actions necessary to alert subordinate units, plan, deploy, and execute an amphibious operation. This event also applies to expeditionary operations.

CONDITION: Given a tactical scenario.

STANDARD: In accordance with JP 3-02 Amphibious Operations.

EVENT COMPONENTS:

1. Support MCPP during amphibious planning.
2. Prepare the plan.
3. Prepare the staging plan.
4. Conduct embarkation.
5. Conduct rehearsals.
6. Conduct debarkation/assault.

CHAINED EVENTS:

ARTY-FDC-4001	EFSS-PLT-5001	EFSS-PLT-5003
ARTY-GUNS-4110		

RELATED EVENTS:

ARTY-BTRY-6005	ARTY-BTRY-6004	ARTY-BTRY-6001
ARTY-BTRY-6002	ARTY-BTRY-6003	

REFERENCES:

1. ATP-38 Amphibious Operations
2. JP 3-02 Amphibious Operations
3. MCWP 3-16.1 Artillery Operations
4. MCWP 3-42.1 Fire Support in MAGTF Operations
5. MCWP 5-1 Marine Corps Planning Process (MCP)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17411 Maneuver/Training Area, Amphibious Forces

3013. INDEX OF HIMARS BATTERY COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
HMRS-BTRY-6000	YES	Execute digital fire mission	3-20
HMRS-BTRY-6010	YES	Execute voice fire mission	3-21
HMRS-BTRY-6020		Conduct tactical march	3-22
HMRS-BTRY-6050		Occupy a position	3-23
HMRS-BTRY-6060	YES	Defend the battery	3-24
HMRS-BTRY-6070	YES	Sustain the battery	3-25
HMRS-BTRY-6080	YES	Execute an emergency fire mission	3-26
HMRS-BTRY-6090		Execute digital fire mission in centralized mode	3-27
HMRS-BTRY-6100		Execute voice fire mission in centralized mode	3-28

3014. HIMARS BATTERY COLLECTIVE EVENTS

HMRS-BTRY-6000: Execute digital fire mission

SUPPORTED MET(S): 9, 10

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a tactical scenario; an operational firing data computation system; an operational internet relay chat client or digital messaging system; data communications between launchers, the battery operation center, the platoon operation center(s), and higher headquarters or reinforced/supported unit (as appropriate); and operational launcher(s) with functioning digital fire control system(s), loaded with a trainer or rocket pod (as appropriate).

STANDARD: To process and fire a fire mission for a pre-planned or on-call target received digitally from higher headquarters or reinforced/supported unit (as appropriate) in a time limit of 6 minutes in daylight and 7 minutes in darkness/CBRN environment.

EVENT COMPONENTS:

1. Battery operation center receives a fire mission via digital means and acknowledges receipt.
2. Battery operation center conducts tactical fire direction and issues fire order.
3. Platoon operation center acknowledges receipt.
4. Platoon operation center conducts tactical fire direction and issues fire order.
5. Launcher acknowledges receipt of fire order and computes firing data.
6. Launcher fires.

CHAINED EVENTS:

HMRS-FDC-3000

HMRS-FDC-3040

HMRS-LAUN-3060

HMRS-BOC-4000

HMRS-PLT-5000

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
H185 Rocket, Pod 298mm Practice Red Range	6 rockets per Team

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when a digital fire mission is received in the battery operation center. Time stops when the launcher reports shot.
2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

HMRS-BTRY-6010: Execute voice fire mission

SUPPORTED MET(S): 9, 10

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a tactical scenario; an operational firing data computation system; voice communications between launchers, the battery operation center, the platoon operation center(s), and higher headquarters or reinforced/supported unit (as appropriate); and operational launcher(s) with functioning digital fire control system(s), loaded with a trainer or rocket pod (as appropriate).

STANDARD: To process and fire a fire mission for a pre-planned or on-call target received via voice transmission from higher headquarters or reinforced/supported unit (as appropriate) in a time limit of 8 minutes in daylight and 10 minutes in darkness/CBRN environment.

EVENT COMPONENTS:

1. Battery operation center receives a fire mission via voice communications and acknowledges receipt.
2. Battery operation center conducts tactical fire direction and issues fire order.
3. Platoon operation center acknowledges receipt.
4. Platoon operation center conducts tactical fire direction and issues fire order.

5. Launcher acknowledges receipt of fire order and computes firing data.
6. Launcher fires.

CHAINED EVENTS:

HMRS-FDC-3010	HMRS-FDC-3030	HMRS-LAUN-3060
HMRS-BOC-4000	HMRS-PLT-5010	

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
H185 Rocket, Pod 298mm Practice Red Range	6 rockets per Team

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when a voice fire mission is received in the battery operation center. Time stops when the launcher reports shot.
 2. Units shall be evaluated in day and night conditions.
 3. Units shall be evaluated in CBRN environment.
-

HMRS-BTRY-6020: Conduct tactical march

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a battery movement order.

STANDARD: To move the battery to the specified position in accordance with time standards contained in the movement order.

EVENT COMPONENTS:

1. Receive movement order.
2. Advance party conducts reconnaissance, selection, and preparation of position.
3. Battery moves in type of march dictated in movement order.

CHAINED EVENTS:

HMRS-AMMO-3010	HMRS-LAUN-3020	HMRS-SEC-3010
HMRS-BOC-4040	HMRS-POC-4040	HMRS-PLT-5020
HMRS-BOC-4010		

REFERENCES:

1. MCRP 4-11.3F Convoy Operations Handbook
2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
3. UNIT SOP Unit's Standing Operating Procedures

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-BTRY-6050: Occupy a position

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a reconnoitered, selected, and prepared position, with the battery at the release point following a tactical march.

STANDARD: To achieve firing capability in accordance with the timeline set in the movement order.

EVENT COMPONENTS:

1. Communicate arrival at release point to the advance party.
2. Launchers occupy operations area(s).
3. BOC established.
4. POCs established.
5. Hide sites, firing points, and reload points identified.
6. Establish local security plan.
7. Send reports to higher headquarters as required.
8. Support sections established.

CHAINED EVENTS:

HMRS-BTRY-4000

HMRS-PLT-5050

HMRS-PLT-5060

HMRS-BOC-4000

HMRS-BOC-4010

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units are considered fire capable when the POC is established and at least one launcher is operational.
2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

HMRS-BTRY-6060: Defend the battery

SUPPORTED MET(S): 9, 10

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given an occupied position area with vehicles, equipment, and Marines organic to a HIMARS battery.

STANDARD: To secure position area and facilitate fire mission processing.

EVENT COMPONENTS:

1. Establish local security plan, integrating all assets and ensuring plan is integrated with higher (as necessary).
2. Establish signal plan and maintain communications with security teams.
3. Protect launchers and command and control assets.

CHAINED EVENTS:

HMRS-LAUN-3040	HMRS-SEC-3000	HMRS-SEC-3020
HMRS-SEC-4000	HMRS-PLT-5060	HMRS-BOC-4010

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
A059 Cartridge, 5.56mm Ball M855 10/Clip	25200 cartridges per Battery
A131 Cartridge, 7.62mm 4 Ball M80/1 Trace	2400 cartridges per Battery
A555 Cartridge, Caliber .50 Ball M33 Link	3000 cartridges per Battery
B542 Cartridge, 40mm HEDP M430/M430A1 Lin	2304 cartridges per Battery

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Local Security Diagram must be completed and submitted within 3 hours

of position occupation.

2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

HMRS-BTRY-6070: Sustain the battery

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a HIMARS battery conducting continuous combat operations.

STANDARD: To meet logistical requirements of equipment and Marines without impacting operational tempo and capability.

EVENT COMPONENTS:

1. Establish re-supply points and coordinate rocket/missile reloads.
2. Coordinate platoon supply; report all supply shortages to battalion or appropriate agencies.
3. Report emergency re-supply requirements to battalion or appropriate agencies immediately.
4. Manage maintenance records.
5. Coordinate equipment recovery.
6. Coordinate medical support for the battery and plan for air and ground MEDEVAC.
7. Ensure Basic Allowance (BA) and Critical Supply Rates (CSR) are known, followed, and reported according to SOP.
8. Perform operator level maintenance checks and services on weapons, vehicles, and communications equipment; report and evacuate items requiring higher echelon maintenance.

CHAINED EVENTS:

HMRS-AMMO-4000

HMRS-AMMO-4010

HMRS-AMMO-4020

HMRS-BOC-4000

HMRS-BOC-4010

HMRS-LAUN-4000

HMRS-SEC-4000

HMRS-PLT-5070

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-16.1 Artillery Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
 2. Units shall be evaluated in CBRN environment.
-

HMRS-BTRY-6080: Execute an emergency fire mission

SUPPORTED MET(S): 9, 10

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a fire mission requiring immediate action while in a tactical road march.

STANDARD: To execute fire mission within 6 minutes in daylight and 8 minutes in darkness/CBRN environment.

EVENT COMPONENTS:

1. Acknowledge receipt of fire mission at FDC.
2. Halt convoy and establish security.
3. Process fire mission through the FDC.
4. Acknowledge receipt of fire mission at launcher.
5. Move launchers to hasty operations area and select useable firing points; ensure firing launchers have security.
6. Execute fire mission at launcher.
7. Reassemble convoy and continue tactical movement.

CHAINED EVENTS:

HMRS-FDC-3000	HMRS-AMMO-3010	HMRS-SEC-3010
HMRS-LAUN-3010	HMRS-FDC-3010	HMRS-LAUN-3060
HMRS-LAUN-3060	HMRS-BOC-4040	HMRS-POC-4040
HMRS-BOC-4010	HMRS-PLT-5000	HMRS-PLT-5010
HMRS-PLT-5020		

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-16.1 Artillery Operations

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
H185 Rocket, Pod 298mm Practice Red Range	6 rockets per Team

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when a fire mission is received in the battery operation center. Time stops when the launcher reports shot.
 2. Units shall be evaluated in day and night conditions.
 3. Units shall be evaluated in CBRN environment.
-

HMRS-BTRY-6090: Execute digital fire mission in centralized mode

SUPPORTED MET(S): 9, 10

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a tactical scenario; an operational firing data computation system; an operational internet relay chat client or digital messaging system; data communications between launchers, the battery operation center, and higher headquarters or reinforced/supported unit (as appropriate); and operational launcher(s) with functioning digital fire control system(s), loaded with a trainer or rocket pod (as appropriate).

STANDARD: To process and fire a fire mission for a pre-planned or on-call target received digitally from higher headquarters or reinforced/supported unit (as appropriate) in a time limit of 4 minutes in daylight and 5 minutes in darkness/CBRN environment.

EVENT COMPONENTS:

1. Battery operation center receives a fire mission via digital means and acknowledges receipt.
2. Battery operation center conducts tactical fire direction and issues fire order.
3. Launcher acknowledges receipt of fire order and computes firing data.
4. Launcher fires.

CHAINED EVENTS:

HMRS-FDC-3000	HMRS-LAUN-3010	HMRS-FDC-3040
HMRS-LAUN-3060	HMRS-BOC-4000	HMRS-PLT-5000

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-16.1 Artillery Operations

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
H185 Rocket, Pod 298mm Practice Red Range	6 rockets per Team

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when a digital fire mission is received in the battery operation center. Time stops when the launcher reports "shot."
 2. Units shall be evaluated in day and night conditions.
 3. Units shall be evaluated in CBRN environment.
-

HMRS-BTRY-6100: Execute voice fire mission in centralized mode

SUPPORTED MET(S): 9, 10

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a tactical scenario; an operational firing data computation system; voice communications between launchers, the battery operation center, and higher headquarters or reinforced/supported unit (as appropriate); and operational launcher(s) with functioning digital fire control system(s), loaded with a trainer or rocket pod (as appropriate).

STANDARD: To process and fire a fire mission for a pre-planned or on-call target received via voice transmission from higher headquarters or reinforced/supported unit (as appropriate) in a time limit of 6 minutes in daylight and 8 minutes in darkness/CBRN environment.

EVENT COMPONENTS:

1. Battery operation center receives a fire mission via voice communications and acknowledges receipt.
2. Battery operation center conducts tactical fire direction and issues fire order.
3. Launcher acknowledges receipt of fire order and computes firing data.
4. Launcher fires.

CHAINED EVENTS:

HMRS-LAUN-3010	HMRS-FDC-3010	HMRS-FDC-3030
HMRS-LAUN-3060	HMRS-BOC-4000	HMRS-PLT-5010

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-16.1 Artillery Operations

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
H185 Rocket, Pod 298mm Practice Red Range	6 rockets per Team

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when a voice fire mission is received in the battery operation center. Time stops when the launcher reports shot.
 2. Units shall be evaluated in day and night conditions.
 3. Units shall be evaluated in CBRN environment.
-

3015. INDEX OF PLATOON COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
ARTY-BTRY-4100		Conduct reconnaissance, selection and preparation of position	3-29
ARTY-COC-5001	YES	Conduct COC operations	3-30
ARTY-PLT-5120		Conduct local security	3-31
ARTY-PLT-5130		Conduct a displacement	3-32
ARTY-PLT-5140		Conduct vertical lift operations	3-33
ARTY-PLT-5150		Conduct emergency fire mission (Hip Shoot)	3-33

3016. PLATOON COLLECTIVE EVENTS

ARTY-BTRY-4100: Conduct reconnaissance, selection, and preparation of position

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

DESCRIPTION: Battery has received an order that will require its displacement. Battalion has designated a position area to be occupied. An advance party has been designated. The advance party conducts all actions necessary for the battery to efficiently occupy the position.

CONDITION: Given a firing position.

STANDARD: Ensuring the advance party conducts all actions in order to support the battery.

EVENT COMPONENTS:

1. Perform map, ground, and/or air reconnaissance (dependent upon time and resources available).
2. Muster and brief advance party.
3. Select position that enhances the accomplishment of the mission.
4. Sweep and secure position.
5. Select primary and supplementary howitzer positions.
6. Select the following sites: FDC, communications and antennae, battery operations center, ammunition, supply, vehicle dispersal area, local security positions, and other sites as required.
7. Brief pickup point, track plan, entrance and exit points.
8. Determine initial deflections, distances, and vertical angles to howitzers.
9. Install wire communications.
10. Continue position improvement until the main body arrives.

REFERENCES:

1. MCIP 3-16.01 Tactics, Techniques, and Procedures for Lightweight 155
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon

- Battery
3. ST 6-50-20 Battery Executive Officer's/ Platoon Leader's Handbook

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: RSOP can be executed for vertical lift operations.

ARTY-COC-5001: Conduct COC operations

SUPPORTED MET(S): 6, 8

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 6 months

DESCRIPTION: The COC is the location where the aggregation and dissemination of information provides the commander and staff with situational awareness which facilitates the decision making process.

CONDITION: Given an operations order, current unit TO&E and battle staff, communication assets and C2 systems.

STANDARD: To integrate systems, personnel and processes to execute command and control of operations.

EVENT COMPONENTS:

1. Organize battle staff.
2. Establish COC.
3. Establish COC watch.
4. Maintain battle rhythm.
5. Establish the MET plan.
6. Coordinate movement of forces.
7. Execute Information Management procedures.
8. Conduct battle drills.
9. Maintain communication with HAS units.
10. Coordinate intel efforts
11. Maintain CTP.
12. Conduct cross boundary coordination.
13. Synchronize staff section operations.
14. Assume tactical control of higher HQ.

CHAINED EVENTS:

ARTY-FDC-4003	ARTY-GUNS-4160	EFSS-MTR-4008
ARTY-GUNS-4190	ARTY-FDC-4001	ARTY-FDC-4002
ARTY-GUNS-4120	EFSS-MTR-4011	

REFERENCES:

1. MCDP 1-0 Marine Corps Operations
 2. MCWP 2-1 Intelligence Operations
 3. MCWP 3-1 Ground Combat Operations
 4. MCWP 3-16.1 Artillery Operations
 5. MCWP 4-12 Operational-Level Logistics
 6. MCWP 5-1 Marine Corps Planning Process (MCP)
 7. UNIT SOP Unit's Standing Operating Procedures
-

ARTY-PLT-5120: Conduct local security

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 2 months

CONDITION: Given an emplaced battery.

STANDARD: Integrating all organic equipment and personnel into the defensive matrix.

EVENT COMPONENTS:

1. Brief and inspect Marines assigned local security.
2. Emplace Marines and weapons.
3. Employ local security measures.
4. Establish OPSEC.
5. Position elements to allow for mutual support.
6. Plan primary, alternate, and supplementary positions.
7. Construct a defensive diagram.
8. Coordinate defense with higher headquarters and adjacent units.
9. Conduct day and night rehearsals of the reaction force.

REFERENCES:

1. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17650 Field Artillery Direct Fire Range
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Physical Constraints: Personnel are required to lift and mount heavy machine guns onto vehicles and mounts.
 2. Concertina Wire, sandbags and all other fortification items needed.
-

ARTY-PLT-5130: Conduct a displacement

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

DESCRIPTION: Battery is in position and providing fires. The tactical situation requires the battery to conduct a displacement. The battery conducts all actions necessary to displace by the most appropriate technique.

CONDITION: Given a howitzer platoon and ammunition.

STANDARD: In accordance with the following criteria: Hasty Displacement in 7 minutes in daylight, 11 minutes in darkness, and Emergency Displacement 4 minutes in daylight, 6 minutes in darkness.

EVENT COMPONENTS:

1. Receive displacement order.
2. Select method of displacement: Hasty, Emergency.
3. Displace the platoon.

CHAINED EVENTS:

ARTY-GUNS-4200 ARTY-GUNS-4210 ARTY-GUNS-4220
ARTY-GUNS-4230

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
3. UNIT SOP Unit's Standing Operating Procedures

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17650 Field Artillery Direct Fire Range
Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Hasty Displacement.
 - a. Time Starts: Displacement order given to battery.
 - b. Time Stops: When the last mission essential vehicle starts to move.
 2. Emergency Displacement.
 - a. Time Starts: Displacement order given to battery.
 - b. Time Stops: When the last mission essential vehicle starts to move toward the rally point; i.e., the travel time from the primary position to the rally point is not timed.
 3. Physical Constraints: Marines are required to shift the howitzer.
-

ARTY-PLT-5140: Conduct vertical lift operations

SUPPORTED MET(S): None

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 6 months

CONDITION: Given a prepared howitzer section, ammunition and receipt of an operations order.

STANDARD: To ensure section, ammunition and equipment are lifted.

EVENT COMPONENTS:

1. Section and mission essential equipment board aircraft.
2. Howitzer is connected.
3. Howitzer arrives at firing position and executes mission(s).

CHAINED EVENTS:

ARTY-BTRY-4100 ARTY-GUNS-4230 ARTY-GUNS-4110
ARTY-GUNS-4220

REFERENCES:

1. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M79	8 projectiles per section
DA12 Charge, Propellant 155mm MACS M231	4 charges per section
DA13 Charge, Propellant 155mm MACS M232	8 charges per section
N340 Fuze, Point Detonating M739/M739A1	8 fuzes per section
N523 Primer, Percussion M82	8 cartridges per section

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17650 Field Artillery Direct Fire Range
Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17911 Air Transport Mockup

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

Physical Constraints: Marines are required to shift the howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short.

Simulation: Yes.

ARTY-PLT-5150: Conduct emergency fire mission

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

DESCRIPTION: The platoon receives a call for fire during a tactical march. Lead vehicle is between 500 and 700 meters from a suitable firing position. Battery expeditiously occupies a position and conducts an adjust fire (fuze quick) fire mission.

CONDITION: The platoon receives a call for fire during a tactical march.

STANDARD: Within 13 minutes.

EVENT COMPONENTS:

1. DFCS.
2. Convoy leader determines best method of lay (degraded).
3. Execute the mission.
4. Continue tactical march.

CHAINED EVENTS:

ARTY-GUNS-4120 ARTY-GUNS-4110

REFERENCES:

1. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
2. UNIT SOP Unit's Standing Operating Procedures

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M79	8 projectiles per section
DA12 Charge, Propellant 155mm MACS M231	4 charges per section
DA13 Charge, Propellant 155mm MACS M232	8 charges per section
N340 Fuze, Point Detonating M739/M739A1	8 fuzes per section
N523 Primer, Percussion M82	8 cartridges per section

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Physical Constraints: Marines are required to shift the howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.
 2. Time Starts: When battery receives the target location in the CFF.
 3. Maximum 3 rounds for adjustment.
 4. Time Stops: Last round fired in FFE.
-

ARTILLERY T&R MANUAL

CHAPTER 4

GUNS COLLECTIVE EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
PURPOSE	4000	4-2
ADMINISTRATIVE NOTES.	4001	4-2
INDEX OF 3000-LEVEL COLLECTIVE EVENTS	4002	4-2
3000-LEVEL COLLECTIVE EVENTS.	4003	4-2
INDEX OF 4000-LEVEL COLLECTIVE EVENTS	4004	4-4
4000-LEVEL COLLECTIVE EVENTS.	4005	4-4

ARTILLERY T&R MANUAL

CHAPTER 4

GUNS COLLECTIVE EVENTS

4000. PURPOSE. This chapter includes all 3000- and 4000-level Guns collective events. A collective event is an event that an established unit would perform in combat. These events are linked to a Service-Level Mission Essential Task (MET). This linkage tailors collective and individual training for the selected MET. Each collective event is composed of component events that provide the major actions required. This may be likely actions, list of functions, or procedures. Accomplishment and proficiency level required of component events are determined by the event standard.

4001. ADMINISTRATIVE NOTES. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the occupational field, "Arty". The second four digits represent the functional or duty area. The last four digits represent the level, and identifier number of the event. Every event has a unique identifier number from 001 to 999.

4002. INDEX OF 3000-LEVEL COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
ARTY-GUNS-3001		Boresight the howitzer (Degraded)	4-2
ARTY-GUNS-3002		Conduct crater analysis	4-3

4003. 3000-LEVEL COLLECTIVE EVENTS GUNS

ARTY-GUNS-3001: Boresight the howitzer

SUPPORTED MET (S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a howitzer that is emplaced in the firing position and is out of boresight.

STANDARD: Using a distant aiming point, standard angle and/or the M2A2 aiming circle methods to an accuracy of 0 mils (3 minutes for a DAP and 5 minutes with an aiming circle).

EVENT COMPONENTS:

1. Determine method to be utilized.
2. Prepare the howitzer.

3. Perform actions for the method selected.
4. Section Chief verifies boresight.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

Ensure that all howitzer sections are evaluated. Each section need only perform one of the methods. However, during the course of the evaluation exercise, ensure that each of the methods is tested.

METHODS OF BORESIGHT:

1. Distant Aiming Point Method
2. Aiming Circle Method
3. Standard Angle Method

ARTY-GUNS-3002: Conduct crater analysis

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given organic equipment and a map.

STANDARD: Determining direction, probable point of origin, and type of munitions.

EVENT COMPONENTS:

1. Determine Grid location of crater.
2. Determine direction back to the firing weapon.
3. Collect shell fragments and determine type of weapon fired.
4. Complete shelling Report (SHELREP) or an Artillery Counterfire Information Form (ACIF) and transmit to higher headquarters.

REFERENCES:

1. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

4004. INDEX OF 4000-LEVEL COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
ARTY-GUNS-4110		Emplace the howitzer	4-4
ARTY-GUNS-4120		Conduct indirect fire missions	4-5
ARTY-GUNS-4130		Conduct misfire procedures	4-7
ARTY-GUNS-4140		Determine muzzle velocity using Muzzle Velocity System (MVS)	4-8
ARTY-GUNS-4150		Conduct a Sweep and Zone mission	4-8
ARTY-GUNS-4160		Fire a Schedule of Fires (Series)	4-9
ARTY-GUNS-4170		Fire on a target out of traverse limits	4-10
ARTY-GUNS-4190		Fire priority target	4-11
ARTY-GUNS-4200		Displace howitzers to supplementary position	4-12
ARTY-GUNS-4210		Engage targets in a direct fire role	4-13
ARTY-GUNS-4220		Displace the howitzer	4-14
ARTY-GUNS-4230		Prepare the howitzer for external lift	4-15

4005. 4000-LEVEL COLLECTIVE EVENTS GUNS

ARTY-GUNS-4110: Emplace the howitzer

SUPPORTED MET (S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

DESCRIPTION: The section will conduct all tasks necessary to prepare the howitzer for indirect or direct fire.

CONDITION: Given a scenario in which the section has occupied a position and the prime mover has stopped.

STANDARD: Within the time standards of 3 minutes in daylight and 7 minutes in darkness.

EVENT COMPONENTS:

1. Howitzer stops in the designated position.
2. Section Chief commands "Dismount."
3. Aiming circle is identified.
4. Announced deflection is applied to the panoramic telescope.
5. Howitzer is laid on the azimuth of fire to an accuracy of 0 mils.

CHAINED EVENTS:

0811-GUNS-1509	0811-GUNS-2202	0811-GUNS-2300
0811-GUNS-2326	0811-GUNS-2402	0811-GUNS-2404
0811-GUNS-2406		

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCIP 3-16.01 Tactics, Techniques, and Procedures for Lightweight 155
3. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2
4. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M795	1 projectiles per section
D544 Projectile, 155mm High Explosive M107	1 projectiles per section
DA12 Charge, Propellant 155mm MACS M231	1 charges per section
DA13 Charge, Propellant 155mm MACS M232	1 charges per section
N340 Fuze, Point Detonating M739/M739A1	1 fuze per section
N523 Primer, Percussion M82	2 cartridges per section
NA15 Fuze, Electronic Time M767A1	1 fuze per section

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17650 Field Artillery Direct Fire Range
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. Time starts when the Section Chief commands "Dismount."
2. Time stops when the section has announced "0" mils and the gun is laid.
3. Physical Constraints: Marines are required to shift the howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.

ARTY-GUNS-4120: Conduct indirect fire missions

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a howitzer section with crew, separate loading ammunition, and fire commands.

STANDARD: Ensuring the howitzer is ready to fire after receipt of QE for the initial and subsequent rounds within 30 seconds for low angle and 45 seconds for high angle.

EVENT COMPONENTS:

1. Section Chief verifies data on the Chief of Section Display (CSD).
2. Verifies proper selection and loading of ammunition.
3. Executes fire mission per the fire commands.

CHAINED EVENTS:

0811-GUNS-1001	0811-GUNS-1004	0811-GUNS-1005
0811-GUNS-1005	0811-GUNS-1006	0811-GUNS-1007
0811-GUNS-1011	0811-GUNS-1013	0811-GUNS-1015
0811-GUNS-2202	0811-GUNS-2204	0811-GUNS-2205
0811-GUNS-2206	0811-GUNS-2207	0811-GUNS-2209
0811-GUNS-2210	0811-GUNS-2213	0811-GUNS-2216
0811-GUNS-2300	0811-GUNS-2304	0811-GUNS-2305
0811-GUNS-2410	0811-GUNS-4110	

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCTM 09814A-14&P M94 Muzzle Velocity System
3. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2
4. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M795	8 projectiles per section
D544 Projectile, 155mm High Explosive M107	8 projectiles per section
DA12 Charge, Propellant 155mm MACS M231	4 charges per section
DA13 Charge, Propellant 155mm MACS M232	4 charges per section
DA45- Projectile, 155mm Excalibur	1 projectiles per section
N291 Fuze, Proximity M732A2 Sub f/NA09	8 fuzes per section
N340 Fuze, Point Detonating M739/M739A1	8 fuzes per section
N523 Primer, Percussion M82	16 cartridges per section
NA09 Fuze, Multi-Option M782	8 fuzes per section
NA15 Fuze, Electronic Time M767A1	8 fuzes per recruit
NA17 Fuze, Electronic Time M762A1	8 fuzes per section

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. Degraded operations fire mission is conducted utilizing optical fire control. Exception to time limits for precision guided munitions.
2. Physical Constraints: Marines are required to shift the howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.
3. Excalibur can be trained using simulation.

ARTY-GUNS-4130: Conduct misfire procedures

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a howitzer section while executing a fire mission, the howitzer has misfired.

STANDARD: Ensuring the howitzer is placed back in action IAW cold, warm, hot tube or warm tube hot weather procedures.

EVENT COMPONENTS:

1. Section attempts to fire two more times.
2. Section determines/performs procedures for a cold, warm or hot tube as per the TM.

CHAINED EVENTS:

0811-GUNS-1006	0811-GUNS-1007	0811-GUNS-1011
0811-GUNS-1013	0811-GUNS-1015	0811-GUNS-2305
0811-GUNS-4110		

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
2. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M79	2 projectiles per section
DA12 Charge, Propellant 155mm MACS M231	2 charges per section
DA13 Charge, Propellant 155mm MACS M232	4 charges per section
DA45- Projectile, 155mm Excalibur	2 projectiles per section
N340 Fuze, Point Detonating M739/M739A1	2 fuzes per section
N523 Primer, Percussion M82	2 cartridges per section

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17650 Field Artillery Direct Fire Range
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Physical Constraints: Marines are required to shift the howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.
2. Excalibur can be trained using simulation.

ARTY-GUNS-4140: Determine muzzle velocity using Muzzle Velocity System (MVS)

SUPPORTED MET (S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 2 months

CONDITION: Battery has received projectile/propellant lots.

STANDARD: Battery has received projectile/propellant lots.

EVENT COMPONENTS:

1. MVS is properly installed, self-test completed, and system test (using simulator) performed.
2. Worksheet (DA Form 4982-1-R) is properly filled out.

CHAINED EVENTS:

0811-GUNS-1009	0811-GUNS-1015	0811-GUNS-2201
0811-GUNS-2202	0811-GUNS-2209	0811-GUNS-2210
0811-GUNS-2213	0811-GUNS-2216	0811-GUNS-2300
0811-GUNS-2305	0811-GUNS-2327	0811-GUNS-2410
0811-GUNS-4110		

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCIP 3-16.01 Tactics, Techniques, and Procedures for Lightweight 155
3. MCTM 09814A-14&P M94 Muzzle Velocity System
4. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2
5. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Physical Constraints: Marines are required to shift the howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.
2. Excalibur can be trained using simulation.

ARTY-GUNS-4150: Conduct a Sweep and Zone mission

SUPPORTED MET (S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a howitzer section, ammunition and fire commands.

STANDARD: Firing initial deflection and quadrant, and computing and firing subsequent rounds in the matrix at the sustained rate of fire.

EVENT COMPONENTS:

1. Section Chief computes data/matrix.

2. Section executes fire missions in accordance with matrix.
3. Reports "rounds complete."

CHAINED EVENTS:

0811-GUNS-1001	0811-GUNS-1004	0811-GUNS-1005
0811-GUNS-1007	0811-GUNS-1011	0811-GUNS-1013
0811-GUNS-1015	0811-GUNS-2202	0811-GUNS-2209
0811-GUNS-2210	0811-GUNS-2213	0811-GUNS-2216
0811-GUNS-2300	0811-GUNS-2304	0811-GUNS-2305
0811-GUNS-2410	0811-GUNS-2311	0811-GUNS-4110

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M795	9 projectiles per section
DA12 Charge, Propellant 155mm MACS M231	5 charges per section
DA13 Charge, Propellant 155mm MACS M232	8 charges per section
N340 Fuze, Point Detonating M739/M739A1	9 fuzes per section
N523 Primer, Percussion M82	9 cartridges per section

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. DA12 or DA13 are utilized based on mission.
2. Physical Constraints: Marines are required to shift the howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.

ARTY-GUNS-4160: Fire a Schedule of Fires (Series)

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

CONDITION: Given a howitzer section, ammunition and predetermined fire commands.

STANDARD: In accordance with the series data.

EVENT COMPONENTS:

1. Receive data via voice commands.

2. Section Chief inputs data into the CSD.
3. Section executes series data per fire commands.

CHAINED EVENTS:

0811-GUNS-2202	0811-GUNS-2210	0811-GUNS-2216
0811-GUNS-2300	0811-GUNS-2304	0811-GUNS-2305
0811-GUNS-2213	0811-GUNS-4110	0811-GUNS-2410

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M795	9 projectiles per section
DA12 Charge, Propellant 155mm MACS M231	5 charges per section
DA13 Charge, Propellant 155mm MACS M232	8 charges per section
N340 Fuze, Point Detonating M739/M739A1	9 fuzes per section
N523 Primer, Percussion M82	9 cartridges per section

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Physical Constraints: Marines are required to shift the howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.
2. Sections need adequate time to manually input series data into the CSD.

ARTY-GUNS-4170: Fire on a target out of traverse limits (OFC)

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 2 months

CONDITION: Given a howitzer section, ammunition and upon receipt of special instructions "Do Not Load and/or Azimuth."

STANDARD: Ensuring the howitzer is ready to fire within 3 minutes in daylight and 6 minutes in darkness.

EVENT COMPONENTS:

1. Section chief directs use of alternate aiming point as necessary.
2. Howitzer is laid onto new azimuth of fire per fire commands.

CHAINED EVENTS:

0811-GUNS-1001	0811-GUNS-1005	0811-GUNS-1006
0811-GUNS-1007	0811-GUNS-1011	0811-GUNS-1013
0811-GUNS-1015	0811-GUNS-2205	0811-GUNS-2206
0811-GUNS-2207	0811-GUNS-2209	0811-GUNS-2210
0811-GUNS-2213	0811-GUNS-2300	0811-GUNS-2301
0811-GUNS-2302	0811-GUNS-2305	0811-GUNS-2309
0811-GUNS-2409	0811-GUNS-2410	0811-GUNS-4110

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M795	2 projectiles per section
DA12 Charge, Propellant 155mm MACS M231	2 charges per section
DA13 Charge, Propellant 155mm MACS M232	4 charges per section
DA45- Projectile, 155mm Excalibur	2 projectiles per section
N340 Fuze, Point Detonating M739/M739A1	2 fuzes per recruit
N523 Primer, Percussion M82	2 cartridges per section

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Physical Constraints: Marines are required to shift the howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.
2. Azimuth will be announced for degraded operations (optical fire control).

ARTY-GUNS-4190: Fire priority target

SUPPORTED MET (S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

CONDITION: Given a howitzer section with ammunition and fire commands.

STANDARD: Within 20 seconds.

EVENT COMPONENTS:

1. Weapon laid on priority target.
2. Execute mission.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

CHAINED EVENTS:

0811-GUNS-1001	0811-GUNS-1004	0811-GUNS-1005
0811-GUNS-1006	0811-GUNS-1007	0811-GUNS-1011
0811-GUNS-1013	0811-GUNS-1015	0811-GUNS-2204
0811-GUNS-2205	0811-GUNS-2206	0811-GUNS-2207
0811-GUNS-2210	0811-GUNS-2213	0811-GUNS-2300
0811-GUNS-2301	0811-GUNS-2302	0811-GUNS-2305
0811-GUNS-2409	0811-GUNS-2410	0811-GUNS-4110

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M795	2 projectiles per section
DA12 Charge, Propellant 155mm MACS M231	2 charges per section
DA13 Charge, Propellant 155mm MACS M232	2 charges per section
DA45- Projectile, 155mm Excalibur	2 projectiles per section
N340 Fuze, Point Detonating M739/M739A1	2 fuzes per section
N523 Primer, Percussion M82	2 cartridges per section

RANGE/TRAINING AREA:

Facility Code 17650 Field Artillery Direct Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

Physical Constraints: Marines are required to lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.

ARTY-GUNS-4200: Displace howitzers to supplementary position

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a howitzer section and ammunition.

STANDARD: Within 3 minutes in daylight, 5 minutes in darkness, and the howitzer ready to engage targets in 3 minutes in daylight and 4 minutes in darkness.

EVENT COMPONENTS:

1. Displace howitzer.
2. Emplace howitzer to engage the target.

3. Displace howitzer from supplementary position.

CHAINED EVENTS:

0811-GUNS-2300 0811-GUNS-2317 0811-GUNS-2414
0811-GUNS-4110

REFERENCES:

1. MCIP 3-16.01 Tactics, Techniques, and Procedures for Lightweight 155
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
3. ST 6-50-20 Battery Executive Officer's/ Platoon Leader's Handbook

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M795	3 projectiles per section
D544 Projectile, 155mm High Explosive M107	3 projectiles per section
DA12 Charge, Propellant 155mm MACS M231	2 charges per section
DA13 Charge, Propellant 155mm MACS M232	3 charges per section
DA45- Projectile, 155mm Excalibur	3 projectiles per section
N340 Fuze, Point Detonating M739/M739A1	3 fuzes per section
N523 Primer, Percussion M82	3 cartridges per section
NA15 Fuze, Electronic Time M767A1	3 fuzes per section

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17650 Field Artillery Direct Fire Range
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Physical Constraints: Marines are required to shift the howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.
2. Additional Instructions:
 - a. Time Starts: When the section has been notified to displace.
 - b. Time Stops: When the howitzer starts to move toward or from the supplementary position; i.e., the travel time from the primary to the supplementary position, or the time from the supplementary back to the primary position is not timed.
 - c. Times Starts: When section dismounts.
 - d. Time Stops: When section is ready to engage.

ARTY-GUNS-4210: Engage targets in a direct fire role

SUPPORTED MET (S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

CONDITION: Given a howitzer section and ammunition.

STANDARD: Achieving destruction with three rounds for armor targets within 2 minutes in daylight and 3 minutes in darkness or two rounds for personnel targets in 1 minute in daylight and 1:30 minutes in darkness.

EVENT COMPONENTS:

1. Section Chief issues fire commands.
2. Execute fire commands.

CHAINED EVENTS:

0811-GUNS-1006	0811-GUNS-1007	0811-GUNS-1011
0811-GUNS-1013	0811-GUNS-1015	0811-GUNS-2207
0811-GUNS-2209	0811-GUNS-2212	0811-GUNS-2213
0811-GUNS-2216	0811-GUNS-2217	0811-GUNS-2300
0811-GUNS-2301	0811-GUNS-2302	0811-GUNS-2303
0811-GUNS-2305	0811-GUNS-2313	

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
2. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M795	3 projectiles per section
DA12 Charge, Propellant 155mm MACS M231	2 charges per section
DA13 Charge, Propellant 155mm MACS M232	3 charges per section
N340 Fuze, Point Detonating M739/M739A1	3 fuzes per section
N523 Primer, Percussion M82	3 cartridges per section
NA15 Fuze, Electronic Time M767A1	3 fuzes per section

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17650 Field Artillery Direct Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Physical Constraints: Marines are required to shift the howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.

ARTY-GUNS-4220: Displace the howitzer

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a howitzer section, ammunition and a movement order.

STANDARD: With all section equipment, personnel and ammunition prepared for movement within 3 minutes.

EVENT COMPONENTS:

1. Receives the command March Order.
2. Section chief displaces howitzer IAW appropriate TM for the weapon.

CHAINED EVENTS:

0811-GUNS-1011	0811-GUNS-2300	0811-GUNS-2307
0811-GUNS-2317	0811-GUNS-2404	0811-GUNS-4110

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
3. UNIT SOP Unit's Standing Operating Procedures

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17650 Field Artillery Direct Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Physical Constraints: Marines are required to shift the howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.
2. Time starts when March Order is announced. Time stops when prime mover and howitzer move.

ARTY-GUNS-4230: Prepare the howitzer for external lift

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

CONDITION: Given a howitzer section, ammunition and receipt of an operations order.

STANDARD: Ensuring howitzer, ammunition and equipment are prepared for lift.

EVENT COMPONENTS:

1. Check the rear lifting shackles
2. Orient and configure the howitzer
3. Create Sling Deflectors

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm,

- M777A2
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M79	8 projectiles per section
DA12 Charge, Propellant 155mm MACS M231	4 charges per section
N340 Fuze, Point Detonating M739/M739A1	8 fuzes per section
N523 Primer, Percussion M82	8 cartridges per section

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

ARTILLERY T&R MANUAL

CHAPTER 5

EFSS COLLECTIVE EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
PURPOSE	5000	5-2
ADMINISTRATIVE NOTES.	5001	5-2
INDEX OF 4000-LEVEL COLLECTIVE EVENTS	5002	5-2
4000-LEVEL COLLECTIVE EVENTS.	5003	5-2
INDEX OF 5000-LEVEL COLLECTIVE EVENTS	5004	5-15
5000-LEVEL COLLECTIVE EVENTS.	5005	5-15

ARTILLERY T&R MANUAL

CHAPTER 5

EFSS COLLECTIVE EVENTS

5000. PURPOSE. This chapter includes all 4000- and 5000-level Expeditionary Fire Support System (EFSS) collective events. A collective event is an event that an established unit would perform in combat. These events are linked to a Service-Level Mission Essential Task (MET). This linkage tailors collective and individual training for the selected MET. Each collective event is composed of component events that provide the major actions required. This may be likely actions, list of functions, or procedures. Accomplishment and proficiency level required of component events are determined by the event standard.

5001. ADMINISTRATIVE NOTES. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the occupational field, "EFSS". The second four digits represent the functional or duty area [(e.g. Mortars (MTR), etc.)]. The last four digits represent the level, and identifier number of the event. Every event has a unique identifier number from 001 to 999.

5002. INDEX OF 4000-LEVEL COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
EFSS-MTR-4001		Emplace the mortar	5-3
EFSS-MTR-4002		Lay the mortar	5-3
EFSS-MTR-4003		Emplace the aiming posts	5-4
EFSS-MTR-4004		Verify boresight of the mortar	5-5
EFSS-MTR-4005		Boresight the mortar	5-6
EFSS-MTR-4006		Perform prefire checks	5-6
EFSS-MTR-4007		Prepare semi-fixed ammunition for firing	5-7
EFSS-MTR-4008		Conduct indirect fire missions	5-8
EFSS-MTR-4009		Fire on a target out of traverse limits	5-9
EFSS-MTR-4010		Conduct misfire procedures	5-10
EFSS-MTR-4011		Fire priority target	5-11
EFSS-MTR-4012		Displace the mortar	5-12
EFSS-MTR-4013		Execute a vertical assault (M327 mortar-internal lift)	5-13
EFSS-MTR-4014		Execute a vertical assault (external sling load)	5-14

5003. 4000-LEVEL COLLECTIVE EVENTS EFSS

EFSS-MTR-4001: Emplace the mortar

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a mortar section.

STANDARD: Within 3 minutes in daylight and 5 minutes in darkness.

EVENT COMPONENTS:

1. Drop Baseplate.
2. Lay Mortar.
3. Establish Aiming Point.
4. Verify Boresight.
5. Second Circle (Safety).
6. Perform Prefire Checks.
7. Ammunition Preparation.
8. Conduct Position Improvement.

CHAINED EVENTS:

0811-EFSS-1002	0811-EFSS-1003	0811-EFSS-1004
0811-EFSS-1005	0811-EFSS-2202	0811-EFSS-2204
0811-EFSS-2205	0811-EFSS-2206	0811-EFSS-2210
0811-EFSS-2201		

REFERENCES:

1. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA45 Cartridge, 120mm Mortar High Explosi	3 mortars per section
CA46 Cartridge, 120mm Mortar Illumination	3 mortars per section
CA49 Cartridge, 120mm Mortar Smoke M1103	3 mortars per section
DWGU Tail Charge Assembly (TCA) M237	3 mortars per section

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

EFSS-MTR-4002: Lay the mortar

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

CONDITION: Given a mortar in the firing position, an aiming circle, a command to lay the mortar, and a gunner's reference card.

STANDARD: Within 3 minutes in daylight and 5 minutes in darkness.

EVENT COMPONENTS:

1. Aiming point/aiming circle is identified without delay.
2. Announces deflection correctly and accurately applies it to M67 series sight.
3. Bubbles are centered prior to sighting on aiming point/aiming circle.
4. Mortar is laid on the azimuth of fire to an accuracy of 0 mils.
5. Proper commands/responses are used.
6. Each section member functions with minimal orders from the Section Chief.

PREREQUISITE EVENTS: EFSS-MTR-4001

CHAINED EVENTS:

0811-EFSS-2201 0811-EFSS-2202 0811-EFSS-2203

REFERENCES:

1. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time Starts: When each mortar has stopped in its designated position.
2. Time Stops: When each mortar is laid.
3. Physical Constraints: Marines are required to lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.

EFSS-MTR-4003: Emplace the aiming posts

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

CONDITION: Given an emplaced mortar.

STANDARD: Within two minutes.

EVENT COMPONENTS:

1. Far aiming post is approximately 70 meters from the mortar; near aiming post is approximately 35 meters from the mortar, or (depending on terrain)

- near post is half the distance between mortar and far post.
2. Azimuth scale readings of the aiming posts are recorded on Gunners reference card.

PREREQUISITE EVENTS:

EFSS-MTR-4001 EFSS-MTR-4002

CHAINED EVENTS:

0811-EFSS-1003 0811-EFSS-2201 0811-EFSS-2202
0811-EFSS-2204 0811-EFSS-2301

REFERENCES:

1. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Time starts: When mortar is laid. Time stops: When Aiming Posts are emplaced.

EFSS-MTR-4004: Verify boresight of the mortar

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 2 months

CONDITION: Given a mortar, M67 series sight, and an assistant.

STANDARD: To an accuracy of +/- 5 mils.

EVENT COMPONENTS:

1. Install Boresight Adaptor.
2. Install M154 Alignment Device.
3. Verify Boresight.

PREREQUISITE EVENTS:

EFSS-MTR-4001 EFSS-MTR-4002 EFSS-MTR-4003

CHAINED EVENTS:

0811-EFSS-2206 0811-EFSS-2209 0811-EFSS-2309
0811-EFSS-2301

REFERENCES:

1. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327

2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

EFSS-MTR-4005: Boresight the mortar

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

CONDITION: Given a mortar emplaced in the firing position.

STANDARD: To an accuracy of zero mils within 7 minutes using a DAP, 10 minutes using the M2A2 aiming circle, and 7 minutes with the 200 meter method.

EVENT COMPONENTS:

1. Install M45E1 boresight unit.
2. Boresight mortar.
3. Section Chief makes only authorized adjustments.
4. Section chief verifies the boresight.

CHAINED EVENTS:

0811-EFSS-2009

0811-EFSS-2206

0811-EFSS-2309

REFERENCES:

1. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Time Starts: On command "Boresight." Time stops: When Boresight is complete.

EFSS-MTR-4006: Perform prefire checks

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

CONDITION: Given an emplaced mortar.

STANDARD: Ensuring all of the prefire checks are conducted as per the reference MCTM 11166A-OR/A.

EVENT COMPONENTS:

1. Check for overhead clearance.
2. Firing selector on C (command) and S (safe).
3. Barrel is locked to baseplate and socket handles are perpendicular to barrel.
4. Check relief valve cap is hand tight and clear of any obstructions.
5. Baseplate barrel clamp removed.
6. Wheel axel locks are locked.
7. Sight secure in sight mount.
8. Bore clear.

PREREQUISITE EVENTS:

EFSS-MTR-4001
EFSS-MTR-4004

EFSS-MTR-4002

EFSS-MTR-4003

CHAINED EVENTS:

0811-EFSS-1005
0811-EFSS-1006

0811-EFSS-2210
0811-EFSS-2301

0811-EFSS-1003

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
3. MCWP 3-16.1 Artillery Operations
4. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

EFSS-MTR-4007: Prepare semi-fixed ammunition for firing

SUPPORTED MET (S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

CONDITION: Given an emplaced mortar, ammunition, and fire commands.

STANDARD: Ensuring proper ammunition handling procedures are utilized.

EVENT COMPONENTS:

1. Ammunition is unpacked.
2. Ammunition is inspected.

3. Charge is cut per fire command.
4. Fuze is set per fire command.
5. Unused increments placed in mission pit.

CHAINED EVENTS:

0811-EFSS-1006	0811-EFSS-1007	0811-EFSS-1008
0811-EFSS-1009	0811-EFSS-2302	0811-EFSS-2303

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
3. MCWP 3-16.1 Artillery Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Physical Constraints: Marines are required to lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.
2. Simulation: Yes.

EFSS-MTR-4008: Conduct indirect fire missions

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 2 months

CONDITION: Given an emplaced mortar and fire commands.

STANDARD: Within 30 seconds.

EVENT COMPONENTS:

1. Record mission.
2. Lay for DF and QE.
3. Prepare ammunition.
4. Section Chief verifies DF, QE, and ammunition.

PREREQUISITE EVENTS:

EFSS-MTR-4001	EFSS-MTR-4002	EFSS-MTR-4003
EFSS-MTR-4004	EFSS-MTR-4006	EFSS-MTR-4007

CHAINED EVENTS:

0811-EFSS-1006	0811-EFSS-1007	0811-EFSS-1008
0811-EFSS-1009	0811-EFSS-1010	0811-EFSS-1011
0811-EFSS-2207	0811-EFSS-2302	0811-EFSS-2303
0811-EFSS-2304		

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA45 Cartridge, 120mm Mortar High Explosi	3 mortars per section
CA46 Cartridge, 120mm Mortar Illumination	3 mortars per section
CA49 Cartridge, 120mm Mortar Smoke M1103	3 mortars per section
DWGU Tail Charge Assembly (TCA) M237	3 charges per section

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time Starts: Quadrant is announced.
2. Time Stops: When mortar is prepared to fire.
3. Physical Constraints: Marines are required to lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.

EFSS-MTR-4009: Fire on a target out of traverse limits

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 2 months

CONDITION: Given an emplaced mortar, section, and fire commands.

STANDARD: Within 3 minutes (daylight) and 6 minutes (darkness).

EVENT COMPONENTS:

1. Switch to alternate aiming post if required.
2. Correct deflection and quadrant settings are applied as per fire commands.
3. Correct alignment of the M67-series sight is obtained prior to firing.
4. Execute fire mission.

PREREQUISITE EVENTS:

EFSS-MTR-4001	EFSS-MTR-4002	EFSS-MTR-4003
EFSS-MTR-4004	EFSS-MTR-4006	EFSS-MTR-4007
EFSS-MTR-4008		

CHAINED EVENTS:

0811-EFSS-1006	0811-EFSS-1007	0811-EFSS-1008
0811-EFSS-1009	0811-EFSS-1010	0811-EFSS-1011
0811-EFSS-2202	0811-EFSS-2204	0811-EFSS-2207

0811-EFSS-2302
0811-EFSS-2306

0811-EFSS-2303

0811-EFSS-2304

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
3. MCWP 3-16.1 Artillery Operations
4. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA45 Cartridge, 120mm Mortar High Explosi	3 mortars per section
CA46 Cartridge, 120mm Mortar Illumination	3 mortars per section
CA49 Cartridge, 120mm Mortar Smoke M1103	3 mortars per section
DWGU Tail Charge Assembly (TCA) M237	3 charges per section

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time Starts: When the command "QUADRANT" is received by the mortar section. Time Stops: Mortar is ready to fire.
2. Simulation: Yes.

EFSS-MTR-4010: Conduct misfire procedures

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 2 months

CONDITION: Given an emplaced mortar and a misfire involving a cold/hot barrel.

STANDARD: Following all instructions per the reference MCTM 11166A-OR/A.

EVENT COMPONENTS:

1. Determine if a misfire occurred.
2. Determine barrel temperature.
3. Take appropriate action based on barrel temperature.
4. Extract a round, if necessary.

PREREQUISITE EVENTS:

EFSS-MTR-4001	EFSS-MTR-4002	EFSS-MTR-4003
EFSS-MTR-4004	EFSS-MTR-4006	EFSS-MTR-4007
EFSS-MTR-4008		

CHAINED EVENTS:

0811-EFSS-1011 0811-EFSS-2314

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
3. MCWP 3-16.1 Artillery Operations
4. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Simulation. Yes.

EFSS-MTR-4011: Fire priority target

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 2 months

CONDITION: Given an emplaced mortar and fire commands.

STANDARD: Within 20 seconds.

EVENT COMPONENTS:

1. Record mission.
2. Lay for DF and QE.
3. Prepare ammunition.
4. Section Chief verifies DF, QE, and ammunition.

PREREQUISITE EVENTS:

EFSS-MTR-4001	EFSS-MTR-4002	EFSS-MTR-4003
EFSS-MTR-4004	EFSS-MTR-4006	EFSS-MTR-4007
EFSS-MTR-4008		

CHAINED EVENTS:

0811-EFSS-1006	0811-EFSS-1007	0811-EFSS-1008
0811-EFSS-1009	0811-EFSS-1010	0811-EFSS-1011
0811-EFSS-2202	0811-EFSS-2204	0811-EFSS-2207
0811-EFSS-2302	0811-EFSS-2303	0811-EFSS-2304

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
3. MCWP 3-16.1 Artillery Operations
4. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon

Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA45 Cartridge, 120mm Mortar High Explosi	3 mortars per section
CA46 Cartridge, 120mm Mortar Illumination	3 mortars per section
CA49 Cartridge, 120mm Mortar Smoke M1103	3 mortars per section
DWGU Tail Charge Assembly (TCA) M237	3 charges per section

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts: When quadrant is announced.
2. Time stops: When mortar is fired. At the completion of each mission, mortars are laid on their priority target.

EFSS-MTR-4012: Displace the mortar

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 2 months

CONDITION: Given an emplaced mortar, section and the command March Order.

STANDARD: Within 3 minutes (daylight) and 5 minutes (darkness).

EVENT COMPONENTS:

1. Pre-towing checks conducted.
2. Section equipment and M67-series sight are properly stowed.
3. Lunette is properly attached to the prime mover.

PREREQUISITE EVENTS: EFSS-MTR-4001

CHAINED EVENTS:

0811-EFSS-1012 0811-EFSS-2308 0811-EFSS-2313
0811-EFSS-2409

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
3. MCWP 3-16.1 Artillery Operations
4. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts: On the command "March Order."
2. Time stops: When the PMW moves.

EFSS-MTR-4013: Execute a vertical assault (M327 mortar-internal lift)

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

CONDITION: Given an emplaced mortar, section and equipment, and a movement order directing a displacement by aircraft.

STANDARD: Within 7 minutes (daylight) and 12 minutes (darkness).

EVENT COMPONENTS:

1. Receive warning order.
2. All personnel are briefed on their roles/duties within the landing zone to include the establishment of security.
3. Sticks and vehicles are organized and staged in the proper sequence.
4. Sections load expeditiously, with individual Marines exhibiting knowledge of all safety factors.
5. The section retains correct manifests for each wave of personnel airlifted at the emplanement site.
6. Security is established in the new position area upon arrival of the lead element.
7. Section reports time of landing of lead elements to higher headquarters.

PREREQUISITE EVENTS: EFSS-MTR-4012

CHAINED EVENTS:

0811-EFSS-2312 0811-EFSS-1012 0811-EFSS-2308
0811-EFSS-2313

REFERENCES:

1. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA45 Cartridge, 120mm Mortar High Explosi	3 mortars per section
CA46 Cartridge, 120mm Mortar Illumination	3 mortars per section
CA49 Cartridge, 120mm Mortar Smoke M1103	3 mortars per section

DWGU Tail Charge Assembly (TCA) M237 3 charges per section

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces

Facility Code 17671 Field Artillery Indirect Fire Range

AIRCRAFT: Sufficient lift for at least two M327 mortars, two PMWs, two PMTs, two ATs, and five LSVs.

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time Starts: Second mortar has arrived and stopped in its designated position.
2. Time Stops: FIRECAP sent to higher headquarters.
3. Physical Constraints: Marines are required to lift heavy equipment in a short time frame.

EFSS-MTR-4014: Execute a vertical assault (external sling load)

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

CONDITION: Given an emplaced mortar, section, equipment, and a movement order.

STANDARD: Within 7 minutes (daylight) and 12 minutes (darkness).

EVENT COMPONENTS:

1. Receive warning order.
2. All personnel are briefed on their roles/duties within the landing zone to include the establishment of security.
3. Sticks and vehicles are organized and staged in the proper sequence.
4. Sections load expeditiously, with individual Marines exhibiting knowledge of all safety factors.
5. The section retains correct manifests for each wave of personnel airlifted at the enplanement site.
6. Security is established in the new position area upon arrival of the lead element.
7. Section reports time of landing of lead elements to higher headquarters.

PREREQUISITE EVENTS: EFSS-MTR-4012

CHAINED EVENTS:

0811-EFSS-2312 0811-EFSS-1012 0811-EFSS-2308
0811-EFSS-2313

REFERENCES:

1. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon

Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA45 Cartridge, 120mm Mortar High Explosi	3 mortars per section
CA46 Cartridge, 120mm Mortar Illumination	3 mortars per section
CA49 Cartridge, 120mm Mortar Smoke M1103	3 mortars per section
DWGU Tail Charge Assembly (TCA) M237	3 charges per section

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

AIRCRAFT: Sufficient lift for at least two M327 mortars, two PMWs, two PMTs, two ATs, and five LSVs.

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts: Mortar has arrived and stopped in its designated position.
2. Time stops: FIRECAP sent to higher headquarters.

5004. INDEX OF 5000-LEVEL COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
EFSS-PLT-5001		Occupy a platoon position (without an Advance Party)	5-15
EFSS-PLT-5002		Conduct reconnaissance and selection of position (vertical assault)	5-16
EFSS-PLT-5003	YES	Occupy a platoon position (vertical assault)	5-17
EFSS-PLT-5004	YES	Conduct indirect fire missions	5-18
EFSS-PLT-5005	YES	Defend the platoon	5-19
EFSS-PLT-5006		Conduct a displacement	5-20
EFSS-PLT-5007	YES	Conduct emergency fire mission (hip shoot)	5-21

5005. 5000-LEVEL COLLECTIVE EVENTS EFSS

EFSS-PLT-5001: Occupy a platoon position (without an Advance Party)

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

CONDITION: Given the Platoon has received a movement order.

STANDARD: Within 5 minutes in daylight and 7 minutes in darkness.

EVENT COMPONENTS:

1. Performs map, ground, and/or air reconnaissance (dependent upon time and resources available).
2. Crosses release point at specified time.
3. Sweeps and secures position.
4. Selects mortar positions.
5. Establish survey control.
6. Selects the following sites: FDC /communications, vehicle dispersal area, local security positions, and other sites as required.
7. Maintains security during occupation.
8. Positions are improved as mission and time permit.
9. Platoon attains a firing capability.

PREREQUISITE EVENTS: 0811-EFSS-2402

CHAINED EVENTS:

EFSS-MTR-4001	EFSS-MTR-4006	EFSS-MTR-4004
EFSS-MTR-4003	EFSS-MTR-4002	0811-EFSS-2401
0811-EFSS-2408	0811-EFSS-2407	0811-EFSS-2406
0811-EFSS-2405	EFSS-MTR-4007	

REFERENCES:

1. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
4. UNIT SOP Unit's Standing Operating Procedures

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time Starts: When the Aiming Circle Operator announces PLATOON ADJUST, AIMING POINT THIS INSTRUMENT.
2. Time Stops: FIRECAP sent to higher headquarters.

EFSS-PLT-5002: Conduct reconnaissance and selection of position (vertical assault)

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

CONDITION: Given an operations order or a FRAGO.

STANDARD: Ensuring a suitable position is identified.

EVENT COMPONENTS:

1. Time permitting, aerial photos of possible landing zones (LZs) are requested.
2. Reconnaissance provides needed information on new position areas to include alternate LZs, terrain, lines of communication, enemy situation, and location of friendly troops.

CHAINED EVENTS:

0811-EFSS-2403 0811-EFSS-2404 0811-EFSS-2408

REFERENCES:

1. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
3. ST 6-50-20 Battery Executive Officer's/ Platoon Leader's Handbook

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

EFSS-PLT-5003: Occupy a platoon position (vertical assault)

SUPPORTED MET(S): None

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a movement order.

STANDARD: Within 5 minutes in daylight and 7 minutes in darkness.

EVENT COMPONENTS:

1. On landing, the leading elements deplane quickly and disperse.
2. Security is established in new position area upon initial set down.
3. Platoon reports time of landing of lead elements to higher headquarters.
4. Designated sites are occupied.

PREREQUISITE EVENTS: EFSS-PLT-5002

CHAINED EVENTS:

0811-EFSS-2401	0811-EFSS-2402	0811-EFSS-2403
0811-EFSS-2404	0811-EFSS-2405	0811-EFSS-2406
0811-EFSS-2407	0811-EFSS-2408	EFSS-MTR-4001
EFSS-MTR-4002	EFSS-MTR-4003	EFSS-MTR-4004
EFSS-MTR-4006	EFSS-MTR-4007	

REFERENCES:

1. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time Starts: Second mortar has arrived and stopped in its designated mortar position.
2. Time Stops: FIRECAP sent to higher headquarters.

EFSS-PLT-5004: Conduct indirect fire missions

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given an emplaced mortar platoon.

STANDARD: Per the fire mission time standards.

EVENT COMPONENTS:

1. Mortar platoon is emplaced on the azimuth of fire.
2. Communication established with higher HQ and observers.
3. Fire Direction Center has the ability to process fire missions.

PREREQUISITE EVENTS:

EFSS-PLT-5001 EFSS-PLT-5002 EFSS-PLT-5003

CHAINED EVENTS:

0811-EFSS-2402	0811-EFSS-2403	0811-EFSS-2404
0811-EFSS-2405	0811-EFSS-2406	0811-EFSS-2407
EFSS-MTR-4001	EFSS-MTR-4002	EFSS-MTR-4003
EFSS-MTR-4004	EFSS-MTR-4006	EFSS-MTR-4007
EFSS-MTR-4009	EFSS-MTR-4010	EFSS-MTR-4011

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
3. MCWP 3-16.2 Procedures for the Marine Corps Fire Support
4. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
5. MCWP 3-16.4 Tactics, Techniques and Procedures for the Field Artillery Manual Cannon Gunnery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA45 Cartridge, 120mm Mortar High Explosi	3 cartridges per section
CA46 Cartridge, 120mm Mortar Illumination	3 cartridges per section
CA49 Cartridge, 120mm Mortar Smoke M1103	3 cartridges per section
DWGU Tail Charge Assembly (TCA) M237	3 charges per section

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Collective fire mission time standards (initial round only)
2. Physical Constraints: Marines are required to lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.

MISSION	FO TEAM	FDC	GUNLINE
	Voice	Handheld/Manual	
AF/FFE	1:00	2:00/1:00	30 sec
IMM SUPP/SMK	1:00	2:00/1:00	30 sec
QUICK SMK	1:30	2:00/3:00	30 sec
OUT OF TRAVERSE	1:00	2:00/1:00	3:00 DAY 6:00 NIGHT
ILLUM	1:00	2:00/1:00	45 sec
DUAL MSNS			
MSN 1	2:00	2:00/1:00	30 sec
MSN 2	:30	2:00/1:00	1:00

EFSS-PLT-5005: Defend the platoon

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 2 months

CONDITION: Given a platoon that has just occupied a new position.

STANDARD: Ensuring the execution of the defense plan.

EVENT COMPONENTS:

1. Supervise priority of work.
2. Conduct perimeter defense per METT-T and ensure the plan is integrated with higher and adjacent units.
3. Prepare the defensive diagram.

PREREQUISITE EVENTS:

EFSS-PLT-5001 EFSS-PLT-5002

CHAINED EVENTS:

0811-EFSS-2402	0811-EFSS-2404	0811-EFSS-2407
0811-EFSS-2408	0811-EFSS-2409	EFSS-MTR-4001
EFSS-MTR-4002	EFSS-MTR-4003	EFSS-MTR-4004
EFSS-MTR-4006	EFSS-MTR-4007	EFSS-MTR-4008
EFSS-MTR-4009	EFSS-MTR-4010	EFSS-MTR-4011

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
3. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
A063 Cartridge, 5.56mm Tracer M856 Single	2000 cartridges per platoon
A064 Cartridge, 5.56mm 4 Ball M855/1 Trac	2000 cartridges per platoon
A131 Cartridge, 7.62mm 4 Ball M80/1 Trace	2000 cartridges per platoon
A518 Cartridge, Caliber .50 4 SLAP M903/1	800 cartridges per platoon
A576 Cartridge, Caliber .50 4 API M8/1 AP	2000 cartridges per platoon
B542 Cartridge, 40mm HEDP M430/M430A1 Lin	2000 cartridges per platoon
B546 Cartridge, 40mm HEDP M433	2000 cartridges per platoon
K143 Mine, Antipersonnel M18A1 with M57 F	10 mines per platoon
L328 Signal, Cartridge Red Flare	20 flares per platoon
L495 Flare, Surface Trip M49 Series	20 flares per platoon

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Physical Constraints: Personnel are required to lift and mount heavy machine guns onto vehicles and mounts.
2. Concertina Wire, sandbags, and all other fortification items needed.

EFSS-PLT-5006: Conduct a displacement

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

CONDITION: Given an emplaced platoon that has received a movement order.

STANDARD: Within 3 minutes in daylight and 5 minutes in darkness.

EVENT COMPONENTS:

1. Conduct convoy brief.
2. Issue the movement order.

3. Commands MARCH ORDER.

PREREQUISITE EVENTS:

EFSS-PLT-5001	EFSS-PLT-5002	EFSS-PLT-5003
EFSS-PLT-5005		

CHAINED EVENTS:

0811-EFSS-2403	EFSS-MTR-4001	EFSS-MTR-4002
EFSS-MTR-4003	EFSS-MTR-4004	EFSS-MTR-4006
EFSS-MTR-4007	EFSS-MTR-4008	EFSS-MTR-4009
EFSS-MTR-4010	EFSS-MTR-4011	EFSS-MTR-4012
EFSS-MTR-4013	EFSS-MTR-4014	

REFERENCES:

1. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

EFSS-PLT-5007: Conduct emergency fire mission

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 2 months

CONDITION: The platoon is on a tactical road march and receives a call for fire.

STANDARD: Within 7 minutes in daylight and 11 minutes in darkness.

EVENT COMPONENTS:

1. Determine best method of lay.
2. Lay mortars.
3. Conduct mission(s).
4. March order.

PREREQUISITE EVENTS:

EFSS-PLT-5001	EFSS-PLT-5002	EFSS-PLT-5003
EFSS-PLT-5004	EFSS-PLT-5006	

CHAINED EVENTS:

0811-EFSS-2401	0811-EFSS-2402	0811-EFSS-2405
0811-EFSS-2406	EFSS-MTR-4001	EFSS-MTR-4002
EFSS-MTR-4003	EFSS-MTR-4004	EFSS-MTR-4006
EFSS-MTR-4007	EFSS-MTR-4008	EFSS-MTR-4009
EFSS-MTR-4010	EFSS-MTR-4011	EFSS-MTR-4012

REFERENCES:

1. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time Starts: When battery receives the target location in the CFF.
2. Maximum 3 rounds for adjustment.
3. Time Stops: Last round fired in FFE.

Simulation. Yes.

ARTILLERY T&R MANUAL

CHAPTER 6

HIMARS COLLECTIVE EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
PURPOSE	6000	6-2
ADMINISTRATIVE NOTES	6001	6-2
INDEX OF 3000-LEVEL COLLECTIVE EVENTS	6002	6-2
3000-LEVEL COLLECTIVE EVENTS	6003	6-3
INDEX OF 4000-LEVEL COLLECTIVE EVENTS	6004	6-25
4000-LEVEL COLLECTIVE EVENTS	6005	6-25
INDEX OF 5000-LEVEL COLLECTIVE EVENTS	6006	6-40
5000-LEVEL COLLECTIVE EVENTS	6007	6-40

ARTILLERY T&R MANUAL

CHAPTER 6

HIMARS COLLECTIVE EVENTS

6000. PURPOSE. This chapter includes all 3000-, 4000- and 5000-level HIMARS collective events. A collective event is an event that an established unit would perform in combat. These events are linked to a Service-Level Mission Essential Task (MET). This linkage tailors collective and individual training for the selected MET. Each collective event is composed of component events that provide the major actions required. This may be likely actions, list of functions, or procedures. Accomplishment and proficiency level required of component events are determined by the event standard.

6001. ADMINISTRATIVE NOTES. T&R events are coded for ease of reference. Each event has an up to 4-4-4 digit identifier. The first four digits represent the occupational field, "HMRS". The second up to four digits represent the functional or duty area [(e.g. Fire Direction Center (FDC), Security (SEC), etc.)]. The last four digits represent the level, and identifier number of the event. Every event has a unique identifier number from 001 to 999.

6002. INDEX OF 3000-LEVEL COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
HMRS-AMMO-3000	YES	Prepare Resupply System (RSS)	6-3
HMRS-AMMO-3010		Conduct a tactical march	6-4
HMRS-AMMO-3020	YES	Transfer rocket pod	6-4
HMRS-AMMO-3030		Conduct air embarkation/debarkation for Re-Supply Vehicle (RSV)	6-5
HMRS-AMMO-3040		Conduct embarkation/debarkation of Re-Supply System (RSS) aboard of amphibious vehicle	6-6
HMRS-FDC-3000	YES	Process a digital fire mission	6-7
HMRS-FDC-3010	YES	Process a voice fire mission	6-8
HMRS-FDC-3020	YES	Process fire plans received via digital communications	6-9
HMRS-FDC-3030	YES	Process fire plans received via voice communications	6-10
HMRS-FDC-3040		Process a digital fire mission in centralized mode	6-11
HMRS-FDC-3050		Process a voice fire mission in centralized mode	6-12
HMRS-LAUN-3000	YES	Prepare HIMARS launcher for operations	6-13
HMRS-LAUN-3010	YES	Establish communication	6-14
HMRS-LAUN-3020		Conduct a tactical march	6-14

HMRS-LAUN-3030		Occupy Operations Area	6-15
HMRS-LAUN-3040		Maintain security	6-16
HMRS-LAUN-3050	YES	Conduct fire mission (digital)	6-17
HMRS-LAUN-3060	YES	Conduct fire mission (voice)	6-18
HMRS-LAUN-3070	YES	Conduct reload operations	6-19
HMRS-LAUN-3080	YES	Conduct emergency fire mission	6-20
HMRS-LAUN-3090		Conduct embarkation/debarkation aboard aircraft	6-21
HMRS-LAUN-3100		Conduct operational decontamination of the M142 HIMARS launcher	6-21
HMRS-SEC-3000	YES	Prepare the security team	6-22
HMRS-SEC-3010		Conduct a tactical march	6-23
HMRS-SEC-3020	YES	Conduct security operations within a position area	6-24

6003. 3000-LEVEL COLLECTIVE EVENTS HMRS

HMRS-AMMO-3000: Prepare Resupply System (RSS)

SUPPORTED MET (S): None

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL**: 3 months

CONDITION: Given a resupply system and required equipment.

STANDARD: To ensure functionality and preparation to support the launcher.

EVENT COMPONENTS:

1. Inventory, inspect and load all Basic Issue Items and crew equipment.
2. Install communication equipment; conduct radio checks.
3. Mount and prepare crew served weapon (when applicable).

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-1004	0814-LAUN-1006
0814-LAUN-2008	0814-LAUN-1008	0814-LAUN-1014
0814-LAUN-1016	0814-LAUN-1017	0814-LAUN-1019
0814-LAUN-2001	0814-LAUN-2005	0814-LAUN-2006
0814-LAUN-2020		

REFERENCES:

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
2. TM 10629-CD Interactive Electronic Technical Manual (IETM) for Re-Supply Vehicle
3. TM 10921A-13&P System Operation Maintenance Manual and repair parts and special tools list for HIMARS Re-Supply Trailer
4. TM 11-5820-890-10-8 SINGARS Ground Combat Net Radio, ICOM
5. TM 11-5830-263-10 Operator's Manual for Vehicular Intercommunication Set, AN/VIC-3(V)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-AMMO-3010: Conduct a tactical march

SUPPORTED MET (S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

CONDITION: Given a movement order.

STANDARD: To safely navigate RSS to assigned position area in accordance with the timeline set in the movement order.

EVENT COMPONENTS:

1. Movement order issued to crew.
2. Execute type of march as directed in accordance with established doctrine, TTPs, and unit SOP.

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-1004	0814-LAUN-1006
0814-LAUN-1016	0814-LAUN-1017	0814-LAUN-1018
0814-LAUN-1019	0814-LAUN-2001	0814-LAUN-2005
0814-LAUN-2006	0814-LAUN-2011	0814-LAUN-2029
0814-LAUN-2037		

REFERENCES:

1. FM 3-25.26 Map Reading and Land Navigation
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCRP 4-11.3F Convoy Operations Handbook
4. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
5. TM 11-5820-890-10-8 SINGARS Ground Combat Net Radio, ICOM
6. TM 11-5830-263-10 Operator's Manual for Vehicular Intercommunication Set, AN/VIC-3(V)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-AMMO-3020: Transfer rocket pod

SUPPORTED MET (S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a Re-Supply System (RSS) prepared for reload operations, ammunition, and equipment.

STANDARD: To transfer ammunition between any combination of the RSV, RST, and the ground within 4 minutes in daylight and 6 minutes in darkness/CBRN environment.

EVENT COMPONENTS:

1. Establish and maintain security.
2. Prepare rocket pod.
3. Transfer rocket pod.
4. Repeat step 2 for truck to ground, ground to truck, truck to truck/trailer, trailer to ground, ground to trailer.
5. Update ammunition document register and accountability files.

CHAINED EVENTS:

0814-LAUN-2008 0814-LAUN-1018 0814-LAUN-2020

REFERENCES:

1. DA Pam 75-5 US Army Utilization, Storage, and Out-loading Drawings for Ammunition and Components
2. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
3. TM 10920A-10 System Operation Manual with components list for HIMARS Re-Supply Vehicle
4. TM 10921A-13&P System Operation Maintenance Manual and repair parts and special tools list for HIMARS Re-Supply Trailer

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
H185 Rocket, Pod 298mm Practice Red Range	12 rockets per Team
HA51- Rocket, 298mm Tactical Unitary M31A1	12 rockets per Team

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when crane is attached to pod lifting bar; time stops when crane is disconnected from rocket pod lifting bar.
2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

HMRS-AMMO-3030: Conduct air embarkation/debarkation for Re-Supply Vehicle (RSV)

SUPPORTED MET (S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

CONDITION: Given a movement order requiring air lift and C-5 or C-17 support.

STANDARD: To load/offload the RSV onto a C-5 or C-17 within 70 minutes in daylight with ring mount, 40 minutes in daylight w/out ring mount, 90 minutes in darkness/CBRN w/ring mount, and 60 minutes in darkness/CBRN w/out ring mount.

EVENT COMPONENTS:

1. Prepare RSS for air transport.
2. Following loadmasters guidance, load RSS onto aircraft.
3. Prepare RSS for debarkation.
4. Following loadmasters guidance, offload RSS from aircraft.

CHAINED EVENTS:

0814-LAUN-2003 0814-LAUN-2004 0814-LAUN-2007

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. TM 10629-CD Interactive Electronic Technical Manual (IETM) for Re-Supply Vehicle
3. TM 10921A-13&P System Operation Maintenance Manual and repair parts and special tools list for HIMARS Re-Supply Trailer

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17911 Air Transport Mockup

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when the crew disembarks from RSV; time stops when RSV begins movement onto aircraft. For debarkation, time starts when RSV moves off the aircraft ramp, time stops when cab has been reconstructed and weapons mount installed if applicable.
2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

HMRS-AMMO-3040: Conduct embarkation/debarkation of Re-Supply System (RSS) aboard of amphibious vehicle

SUPPORTED MET (S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

CONDITION: Given a movement order requiring sea lift and naval support.

STANDARD: To prepare the RSS for load/offload within 20 minutes, then load/offload on/from the amphibious vehicle.

EVENT COMPONENTS:

1. Prepare RSS for sea transport.
2. Following loadmasters guidance, load RSS onto vessel.
3. Prepare RSS for debarkation.
4. Following loadmasters guidance, offload RSS from vessel.

CHAINED EVENTS:

0814-LAUN-2003 0814-LAUN-2004 0814-LAUN-2007

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. TM 10629-CD Interactive Electronic Technical Manual (IETM) for Re-Supply Vehicle
3. TM 10921A-13&P System Operation Maintenance Manual and repair parts and special tools list for HIMARS Re-Supply Trailer

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17909 Ship Loading And Unloading Mockup

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when the crew dismounts from RSS; time stops when RSS begins movement onto the amphibious vessel. For debarkation, time starts when RSS moves off the amphibious vessel, time stops when RSS displaces from landing area.
2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

HMS-FDC-3000: Process a digital fire mission

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a tactical scenario; an operational firing data computation system; an operational internet relay chat client or digital messaging system; data communications between launchers, the fire direction center, and higher headquarters or reinforced/supported unit (as appropriate); and operational launcher(s) with functioning digital fire control system(s), loaded with a trainer or rocket pod (as appropriate).

STANDARD: To conduct tactical fire direction and transmit fire mission to the appropriate fire direction agency or launcher(s) within a time limit of one and a half minutes.

EVENT COMPONENTS:

1. Acknowledge receipt of fire mission.
2. Process fire mission.
3. Transmit fire order.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-1003
0814-LAUN-1004	0814-LAUN-1006	0814-LAUN-1008
0814-LAUN-1009	0814-LAUN-1011	0814-LAUN-1016
0814-LAUN-2001	0814-LAUN-2006	0814-LAUN-2015
0814-LAUN-2017	0814-LAUN-2019	

REFERENCES:

1. AFATDS Supervisor's Notebook (AFATDS 6.4.0.0)
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCWP 3-16.1 Artillery Operations
4. USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0) USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when complete call for fire is received. Time stops when launcher acknowledges receipt of fire mission.
2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

HMRS-FDC-3010: Process a voice fire mission

SUPPORTED MET(S): None

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a tactical scenario; an operational firing data computation system; voice communications between launchers, the fire direction center, and higher headquarters or reinforced/supported unit (as appropriate); and operational launcher(s) with functioning digital fire control system(s), loaded with a trainer or rocket pod (as appropriate).

STANDARD: To conduct tactical fire direction and transmit fire mission to the appropriate fire direction agency or launcher(s) within a time limit of two minutes.

EVENT COMPONENTS:

1. Acknowledge receipt of fire mission.
2. Process fire mission.
3. Transmit fire order.

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-1004	0814-LAUN-1006
0814-LAUN-1008	0814-LAUN-1010	0814-LAUN-1011
0814-LAUN-1017	0814-LAUN-2001	0814-LAUN-2006
0814-LAUN-2015	0814-LAUN-2017	0814-LAUN-2019

REFERENCES:

1. AFATDS Supervisor's Notebook (AFATDS 6.4.0.0)
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCWP 3-16.1 Artillery Operations
4. USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0) USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when complete call for fire is received. Time stops when launcher acknowledges receipt of fire mission.
2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

HMRS-FDC-3020: Process fire plans received via digital communications

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a fire plan transmitted via digital communications from higher artillery, reinforced, or supported unit headquarters, a DA Form 5368-R (Quick Fire Plan Form) or a Target List Worksheet/Scheduling Worksheet, an operational firing data computation system, communication with the launcher(s), and the references.

STANDARD: To conduct tactical fire direction and transmit fire mission(s) to the appropriate fire direction agency or launcher(s) within the timeline set by the fire plan.

EVENT COMPONENTS:

1. Receive the fire plan digitally and acknowledge receipt.
2. Check fire plan for accuracy and completeness.
3. Conduct tactical fire direction and assign firing unit(s).
4. Transmit fire order(s).

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-1003
0814-LAUN-1004	0814-LAUN-1006	0814-LAUN-1008
0814-LAUN-1009	0814-LAUN-1011	0814-LAUN-1016

0814-LAUN-2001 0814-LAUN-2006 0814-LAUN-2015
0814-LAUN-2017 0814-LAUN-2019

REFERENCES:

1. AFATDS Supervisor's Notebook (AFATDS 6.4.0.0)
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
4. MCWP 3-16.1 Artillery Operations
5. USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0) USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-FDC-3030: Process fire plans received via voice communications

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a fire plan transmitted via voice communications from higher artillery, reinforced or supported unit headquarters, a DA Form 5368-R (Quick Fire Plan Form) or a Target List Worksheet/Scheduling Worksheet, an operational firing data computation system, communication with the launcher(s), and the references.

STANDARD: To conduct tactical fire direction and transmit fire mission(s) to the appropriate fire direction agency or launcher(s) within the timeline set by the fire plan.

EVENT COMPONENTS:

1. Receive the fire plan via voice fire direction net and acknowledge receipt.
2. Record fire plan on DA Form 5368-R or Scheduling Worksheet.
3. Check fire plan for accuracy and completeness.
4. Enter the fire plan into AFATDS.
5. Conduct tactical fire direction and assign firing unit(s).
6. Transmit fire order(s).

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-1004	0814-LAUN-1006
0814-LAUN-1008	0814-LAUN-1010	0814-LAUN-1011
0814-LAUN-1017	0814-LAUN-2001	0814-LAUN-2006
0814-LAUN-2015	0814-LAUN-2017	0814-LAUN-2019

REFERENCES:

1. AFATDS Supervisor's Notebook (AFATDS 6.4.0.0)
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
4. MCWP 3-16.1 Artillery Operations
5. USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0) USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-FDC-3040: Process a digital fire mission in centralized mode

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a tactical scenario; an operational firing data computation system; an operational internet relay chat client or digital messaging system; data communications between launchers, the battery operation center, and higher headquarters or reinforced/supported unit (as appropriate); and operational launcher(s) with functioning digital fire control system(s), loaded with a trainer or rocket pod (as appropriate).

STANDARD: To conduct tactical fire direction and transmit fire mission to the appropriate launcher(s) within a time limit of one and a half minutes.

EVENT COMPONENTS:

1. Acknowledge receipt of fire mission.
2. Process fire mission.
3. Transmit fire order.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-1003
0814-LAUN-1004	0814-LAUN-1006	0814-LAUN-1008
0814-LAUN-1009	0814-LAUN-1011	0814-LAUN-1016
0814-LAUN-2001	0814-LAUN-2006	0814-LAUN-2015
0814-LAUN-2017	0814-LAUN-2019	

REFERENCES:

1. AFATDS Supervisor's Notebook (AFATDS 6.4.0.0)
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCWP 3-16.1 Artillery Operations
4. USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0) USMC HIMARS AFATDS

Job Aids (AFATDS Version 6.4.0.0)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when complete call for fire is received. Time stops when launcher acknowledges receipt of fire mission.
2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

HMRS-FDC-3050: Process a voice fire mission in centralized mode

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a tactical scenario; an operational firing data computation system; voice communications between launchers, the battery operation center, and higher headquarters or reinforced/supported unit (as appropriate); and operational launcher(s) with functioning digital fire control system(s), loaded with a trainer or rocket pod (as appropriate).

STANDARD: To conduct tactical fire direction and transmit fire mission to the appropriate launcher(s) within a time limit of two minutes.

EVENT COMPONENTS:

1. Acknowledge receipt of fire mission.
2. Process fire mission.
3. Transmit fire order.

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-1004	0814-LAUN-1006
0814-LAUN-1008	0814-LAUN-1010	0814-LAUN-1011
0814-LAUN-1017	0814-LAUN-2001	0814-LAUN-2006
0814-LAUN-2015	0814-LAUN-2017	0814-LAUN-2019

REFERENCES:

1. AFATDS Supervisor's Notebook (AFATDS 6.4.0.0)
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCWP 3-16.1 Artillery Operations
4. USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0) USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when complete call for fire is received. Time stops when launcher acknowledges receipt of fire mission.
 2. Units shall be evaluated in day and night conditions.
 3. Units shall be evaluated in CBRN environment.
-

HMRS-LAUN-3000: Prepare HIMARS launcher for operations

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 1 month

CONDITION: Given an order to conduct combat operations.

STANDARD: To ensure launcher, communications equipment, and fire control system are operational and ready to receive fire missions.

EVENT COMPONENTS:

1. Inventory, inspect and load all BII and crew equipment.
2. Perform before operations PMCS on the HIMARS carrier vehicle.
3. Perform before operations PMCS on the HIMARS weapon system.
4. Install communication equipment.
5. Initialize Universal Gunners Display Unit (UGDU).
6. Using an AN/CYZ-10, load GPS keys.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-1003
0814-LAUN-1004	0814-LAUN-1006	0814-LAUN-1008
0814-LAUN-1016	0814-LAUN-1017	0814-LAUN-2001
0814-LAUN-2006		

REFERENCES:

1. TM 10254A-10/1 Operator's Manual for Data Transfer Device, AN/CYZ-10(V)3
2. TM 11-5820-890-10-8 SINCGARS Ground Combat Net Radio, ICOM
3. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
 2. Units shall be evaluated in CBRN environment.
-

HMRS-LAUN-3010: Establish communication

SUPPORTED MET(S): None

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 1 month

CONDITION: Given an order to conduct combat operations and an operational launcher and systems.

STANDARD: Ensuring the launcher consistently transmits and receives voice and data traffic with battery/platoon operation center.

EVENT COMPONENTS:

1. Configure VIC III system.
2. Install and configure communications and crypto equipment.
3. Troubleshoot communications as required.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-1003
0814-LAUN-1006	0814-LAUN-1016	0814-LAUN-1017
0814-LAUN-2006		

REFERENCES:

1. TM 10254A-10/1 Operator's Manual for Data Transfer Device, AN/CYZ-10(V)3
2. TM 11-5820-890-10-8 SINCGARS Ground Combat Net Radio, ICOM
3. TM 11-5830-263-10 Operator's Manual for Vehicular Intercommunication Set, AN/VIC-3(V)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-LAUN-3020: Conduct a tactical march

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 1 month

CONDITION: Given a movement order.

STANDARD: To safely navigate launcher to assigned position area in accordance with the timeline set in the movement order.

EVENT COMPONENTS:

1. Movement order issued to crew.
2. Execute type of march as directed in accordance with established doctrine, TTPs, and unit SOP.

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-1004	0814-LAUN-1006
----------------	----------------	----------------

0814-LAUN-1016	0814-LAUN-1017	0814-LAUN-1018
0814-LAUN-1019	0814-LAUN-2001	0814-LAUN-2005
0814-LAUN-2006	0814-LAUN-2011	0814-LAUN-2029
0814-LAUN-2037		

REFERENCES:

1. FM 3-25.26 Map Reading and Land Navigation
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCRP 4-11.3F Convoy Operations Handbook
4. TM 11-5820-890-10-8 SINGARS Ground Combat Net Radio, ICOM
5. TM 11-5830-263-10 Operator's Manual for Vehicular Intercommunication Set, AN/VIC-3(V)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-LAUN-3030: Occupy Operations Area

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 1 month

CONDITION: Given a movement order and the advance party has completed reconnaissance of the operations (position) area.

STANDARD: To achieve firing capability in accordance with the timeline set in the movement order.

EVENT COMPONENTS:

1. Maintain proper dispersion and security when entering the area.
2. Select suitable hide points and firing points and build location database.
3. Transmit location database to controlling FDC.
4. Receive and input reload points.
5. Perform position improvement as time and situation permits.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1003	0814-LAUN-1004
0814-LAUN-1006	0814-LAUN-1008	0814-LAUN-1016
0814-LAUN-1019	0814-LAUN-2001	0814-LAUN-2005
0814-LAUN-2006	0814-LAUN-2014	0814-LAUN-2015

REFERENCES:

1. FM 3-25.26 Map Reading and Land Navigation
2. MCIP 3-16.02 Marine Rocket Battery Operations

3. MCRP 4-11.3F Convoy Operations Handbook
4. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-LAUN-3040: Maintain security

SUPPORTED MET (S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 1 month

CONDITION: Given a position area.

STANDARD: To ensure safe accomplishment of operations.

EVENT COMPONENTS:

1. Launcher crew briefed on local security plan.
2. Integrate internal launcher security with local security plan.
3. Adjust security posture as tactical situation develops.

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-1004	0814-LAUN-2006
0814-LAUN-1006	0814-LAUN-1017	0814-LAUN-1019
0814-LAUN-2005	0814-LAUN-2014	0814-LAUN-2027
0814-LAUN-2031	0814-LAUN-2034	

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-16.1 Artillery Operations
3. UNIT SOP Unit's Standing Operating Procedures

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
A059 Cartridge, 5.56mm Ball M855 10/Clip	630 cartridges per Team
A131 Cartridge, 7.62mm 4 Ball M80/1 Trace	400 cartridges per Team

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-LAUN-3050: Conduct fire mission (digital)

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 1 month

CONDITION: Given a fire mission received via digital fire control system.

STANDARD: To execute fire mission within 2 minutes in daylight and 3 minutes in darkness.

EVENT COMPONENTS:

1. Acknowledge receipt of digital fire mission.
2. Move to firing point.
3. Execute fire mission.
4. Return to hide point.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-1003
0814-LAUN-1004	0814-LAUN-2006	0814-LAUN-1006
0814-LAUN-1008	0814-LAUN-1009	0814-LAUN-1011
0814-LAUN-1016	0814-LAUN-2001	0814-LAUN-2015
0814-LAUN-2017	0814-LAUN-2019	

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
H185 Rocket, Pod 298mm Practice Red Range	12 rockets per Team
HA51- Rocket, 298mm Tactical Unitary M31A1	12 rockets per Team

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when launcher acknowledges receipt of fire mission and begins movement from hide location. Time stops when first rocket is fired for a fire when ready mission, or is laid for all other fire missions.

2. The collective will be accomplished using DODIC H185 Reduced Range Practice Rocket (RRPR). Due to cost each launcher will be allocated 12 rockets per year. At a minimum each launcher crew is recommended to fire, either digitally or voice, a live rocket every 6 months.
3. The remaining months training will be conducted using the rocket simulator.
4. Units shall be evaluated in day and night conditions.
5. Units shall be evaluated in CBRN environment.

HMRS-LAUN-3060: Conduct fire mission (voice)

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 1 month

CONDITION: Given a fire mission received via voice communications.

STANDARD: To execute fire mission within 4 minutes in daylight and 6 minutes in darkness.

EVENT COMPONENTS:

1. Manually input fire mission data received from FDC into the fire mission database.
2. Move to firing point.
3. Execute fire mission.
4. Return to hide point.

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-1004	0814-LAUN-2006
0814-LAUN-1006	0814-LAUN-1008	0814-LAUN-1010
0814-LAUN-1011	0814-LAUN-1017	0814-LAUN-2019
0814-LAUN-2001	0814-LAUN-2015	0814-LAUN-2017

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
H185 Rocket, Pod 298mm Practice Red Range	12 rockets per Team
HA51- Rocket, 298mm Tactical Unitary M31A1	6 rockets per Team

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when launcher acknowledges receipt of fire mission and begins movement from hide location. Time stops when first rocket is fired for a fire when ready mission, or is laid for all other fire missions.
2. The collective will be accomplished using DODIC H185 Reduced Range Practice Rocket (RRPR). Due to cost each launcher will be allocated 12 rockets per year. At a minimum each launcher crew is recommended to fire, either digitally or voice, a live rocket every 6 months.
3. The remaining months training will be conducted using the rocket simulator.
4. Units shall be evaluated in day and night conditions.
5. Units shall be evaluated in CBRN environment.

HMRS-LAUN-3070: Conduct reload operations

SUPPORTED MET(S): None

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 1 month

CONDITION: Given an expended pod in the launcher.

STANDARD: To achieve firing capability within 8 minutes in daylight, 12 minutes in darkness, 10 minutes in a daylight CBRN environment, and 14 minutes in a darkness CBRN environment.

EVENT COMPONENTS:

1. Inspect pod, to include verification of lot number on pod.
2. Correctly position launchers for reload.
3. Download expended ammunition pod.
4. Upload ammunition pod.
5. Stow launcher module.
6. Move to the next location.

CHAINED EVENTS:

0814-LAUN-1004	0814-LAUN-2006	0814-LAUN-1006
0814-LAUN-2008	0814-LAUN-1008	0814-LAUN-1014
0814-LAUN-1016	0814-LAUN-1018	0814-LAUN-1019
0814-LAUN-2020	0814-LAUN-2001	0814-LAUN-2005

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
H185 Rocket, Pod 298mm Practice Red Range	6 rockets per Team
HA51- Rocket, 298mm Tactical Unitary M31A1	6 rockets per Team

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when the launcher pulls up to and stops at the rocket pod to be loaded. Time stops when the launcher pulls away from the reload point.
2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

SIMULATION: Ballast-filled pod.

HMRS-LAUN-3080: Conduct emergency fire mission

SUPPORTED MET (S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a fire mission requiring immediate action while in a tactical road march.

STANDARD: Executing fire mission within 4 minutes in daylight, 6 minutes in darkness, and 6 minutes in a CBRN environment.

EVENT COMPONENTS:

1. Receipt of fire mission.
2. Move to hasty firing point and park on correct heading.
3. Arm and fire weapons in accordance with fire commands.
4. Move off firing point and rejoin convoy.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1004	0814-LAUN-2006
0814-LAUN-1006	0814-LAUN-1008	0814-LAUN-1009
0814-LAUN-1010	0814-LAUN-1011	0814-LAUN-1016
0814-LAUN-2005	0814-LAUN-1019	0814-LAUN-2015
0814-LAUN-2017	0814-LAUN-2019	

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when launcher departs convoy for firing point; time stops when first rocket is fired.
2. Firing launchers shall be no less than 400 meters from friendly units.
3. Units shall be evaluated in day and night conditions.

4. Units shall be evaluated in CBRN environment.
-

HMRS-LAUN-3090: Conduct embarkation/debarkation aboard aircraft

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

CONDITION: Given a movement order requiring air lift and C-5 or C-17 support.

STANDARD: To load the launcher onto a C-5 or C-17 within 15 minutes in daylight, 18 minutes in darkness/CBRN environment and to offload the launcher from a C-5 or C-17 within 15 minutes in daylight and 18 minutes in darkness/CBRN environment.

EVENT COMPONENTS:

1. Prepare launcher for air embarkation.
2. Follow loadmasters instructions.
3. Prepare launcher for air debarkation.
4. Verify grid location (at least 35 feet from aircraft).

CHAINED EVENTS:

0814-LAUN-2003

0814-LAUN-2004

0814-LAUN-2007

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17911 Air Transport Mockup

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
 2. Units shall be evaluated in CBRN environment.
-

HMRS-LAUN-3100: Conduct operational decontamination of the M142 HIMARS launcher

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

CONDITION: Given a chemical, biological, radiological, or nuclear contaminated environment.

STANDARD: To decontaminate launcher and crew for future operations.

EVENT COMPONENTS:

1. Determine type of contamination.
2. Decontaminate launcher, equipment, and crew with procedures appropriate for type of contamination.
3. Continue operations.

REFERENCES:

1. MCRP 3-37A NBC Field Handbook

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
G963 Grenade, Hand Riot CS M7A3	12 grenades per Company

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Units shall be evaluated in day and night conditions.

SIMULATION: Yes.

HMRS-SEC-3000: Prepare the security team

SUPPORTED MET (S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a security vehicle and required equipment.

STANDARD: To provide security for the platoon.

EVENT COMPONENTS:

1. Perform appropriate preventive maintenance checks and services on equipment.
2. Coordinate logistical support.
3. Coordinate for 24-hour sustainability.
4. Understand platoon local security plan.
5. Conduct immediate actions.

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-2006	0814-LAUN-1006
0814-LAUN-1017	0814-LAUN-1019	0814-LAUN-2005
0814-LAUN-2014	0814-LAUN-2027	0814-LAUN-2031

0814-LAUN-2034

REFERENCES:

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
2. TM 11-5820-890-10-8 SINCGARS Ground Combat Net Radio, ICOM

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
A059 Cartridge, 5.56mm Ball M855 10/Clip	630 cartridges per Team
A131 Cartridge, 7.62mm 4 Ball M80/1 Trace	400 cartridges per Team
A555 Cartridge, Caliber .50 Ball M33 Link	500 cartridges per Team
B542 Cartridge, 40mm HEDP M430/M430A1 Lin	384 cartridges per Team

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-SEC-3010: Conduct a tactical march

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a movement order.

STANDARD: To navigate security team to position area within the timeline directed in the movement order.

EVENT COMPONENTS:

1. Movement order issued to crew.
2. Execute type of march as directed in accordance with established doctrine, TTPs, and unit SOP.

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-1004	0814-LAUN-2006
0814-LAUN-1006	0814-LAUN-1016	0814-LAUN-1017
0814-LAUN-1018	0814-LAUN-1019	0814-LAUN-2001
0814-LAUN-2005	0814-LAUN-2011	0814-LAUN-2029
0814-LAUN-2037		

REFERENCES:

1. FM 3-25.26 Map Reading and Land Navigation
2. MCRP 4-11.3F Convoy Operations Handbook
3. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-SEC-3020: Conduct security operations within a position area

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a security vehicle and required equipment.

STANDARD: To provide security for the platoon.

EVENT COMPONENTS:

1. Integrate with platoon local security plan.
2. Protect launchers and command and control assets.
3. Conduct coordination with higher and adjacent sections.

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-1004	0814-LAUN-2006
0814-LAUN-1006	0814-LAUN-1017	0814-LAUN-1019
0814-LAUN-2005	0814-LAUN-2014	0814-LAUN-2024
0814-LAUN-2034	0814-LAUN-2031	

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
3. TM 11-5820-890-10-8 SINCGARS Ground Combat Net Radio, ICOM

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
A059 Cartridge, 5.56mm Ball M855 10/Clip	630 cartridges per Team
A131 Cartridge, 7.62mm 4 Ball M80/1 Trace	400 cartridges per Team
A576 Cartridge, Caliber .50 4 API M8/1 AP	500 cartridges per Team
B542 Cartridge, 40mm HEDP M430/M430A1 Lin	384 cartridges per Team

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

6004. INDEX OF 4000-LEVEL COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
HMRS-AMMO-4000	YES	Establish a reload point	6-25
HMRS-AMMO-4010		Conduct Ammunition Holding Area (AHA) operations	6-26
HMRS-AMMO-4020		Sustain the resupply system section	6-27
HMRS-BOC-4000		Establish Battery Operations Center (BOC)	6-28
HMRS-BOC-4010		Command and control the battery	6-29
HMRS-BOC-4020		Conduct passage of control	6-29
HMRS-BOC-4030		Assume the role of the Battalion Combat Operations Center (Emergency)	6-30
HMRS-BOC-4040		Conduct a tactical march	6-31
HMRS-BTRY-4000		Perform reconnaissance, selection, and preparation of position area	6-32
HMRS-LAUN-4000		Sustain the launcher section	6-33
HMRS-LAUN-4010		Destroy launcher and ammunition	6-34
HMRS-POC-4000	YES	Establish Platoon Operations Center (POC)	6-35
HMRS-POC-4010	YES	Command and control the platoon	6-36
HMRS-POC-4020		Conduct passage of control	6-37
HMRS-POC-4030		Assume the role of the Battery Operation Center (Emergency)	6-37
HMRS-POC-4040		Conduct a tactical march	6-38
HMRS-SEC-4000		Sustain the security section	6-39

6005. 4000-LEVEL COLLECTIVE EVENTS HMRS

HMRS-AMMO-4000: Establish a reload point

SUPPORTED MET(S): None

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a position area, ammunition, and equipment.

STANDARD: To maintain ammunition support for launcher operations.

EVENT COMPONENTS:

1. Conduct a tactical march to the designated reload point.
2. Establish and maintain security.
3. Determine suitability of reload point.
4. Drop ammunition as directed.
5. Provide over watch security on ammunition.

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-1004	0814-LAUN-2006
0814-LAUN-1006	0814-LAUN-2008	0814-LAUN-1008
0814-LAUN-1014	0814-LAUN-1016	0814-LAUN-1017
0814-LAUN-1019	0814-LAUN-2001	0814-LAUN-2005
0814-LAUN-2020		

REFERENCES:

1. FM 3-25.26 Map Reading and Land Navigation
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCRP 4-11.3F Convoy Operations Handbook

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
H185 Rocket, Pod 298mm Practice Red Range	6 rockets per section

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-AMMO-4010: Conduct Ammunition Holding Area (AHA) operations

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a position area, ammunition, and equipment.

STANDARD: To maintain ammunition support for platoon operations.

EVENT COMPONENTS:

1. Establish and maintain security.
2. Drop ammunition as directed.
3. Tie the AHA into the local security plan.
4. Receive information from platoon leadership and disseminate to ammunition section.

CHAINED EVENTS:

0814-LAUN-2006	0814-LAUN-1006	0814-LAUN-1014
0814-LAUN-1016		

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. TM 10920A-10 System Operation Manual with components list for HIMARS Re-Supply Vehicle

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
H185 Rocket, Pod 298mm Practice Red Range	12 rockets per section
HA51- Rocket, 298mm Tactical Unitary M31A1	12 rockets per section

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-AMMO-4020: Sustain the resupply system section

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given equipment, vehicles, and crew conducting combat operations.

STANDARD: To meet logistical requirements of equipment and Marines without impacting operational tempo and capability.

EVENT COMPONENTS:

1. Perform operator level maintenance checks and services on weapons, vehicles, and communications equipment; report and evacuate items requiring higher echelon maintenance.
2. Coordinate section supply; report all supply shortages to the platoon leadership.
3. Ensure Basic Allowance (BA) and Critical Supply Rates (CSR) are known, followed, and reported to platoon leadership.
4. Report emergency resupply requirements to Platoon Sergeant immediately.

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 4-11 Tactical-Level Logistics
3. TM 10920A-10 System Operation Manual with components list for HIMARS Re-Supply Vehicle
4. TM 10921A-13&P System Operation Maintenance Manual and repair parts and special tools list for HIMARS Re-Supply Trailer
5. TM 11-5820-890-10-8 SINCGARS Ground Combat Net Radio, ICOM
6. TM 11-5830-263-10 Operator's Manual for Vehicular Intercommunication Set, AN/VIC-3(V)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-BOC-4000: Establish Battery Operations Center (BOC)

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given organic equipment and personnel and a position area.

STANDARD: To ensure fire mission processing and command and control capability.

EVENT COMPONENTS:

1. Occupy position area, maintaining security.
2. Establish and maintain voice and data communications (as required) with appropriate higher headquarters, launchers, and subordinate sections of the platoon.
3. Establish fire direction center.
4. Establish and maintain security integrated with the local security plan.
5. Conduct position improvement.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-1003
0814-LAUN-1004	0814-LAUN-1006	0814-LAUN-1008
0814-LAUN-1009	0814-LAUN-1010	0814-LAUN-1011
0814-LAUN-1016	0814-LAUN-1017	0814-LAUN-2001
0814-LAUN-2006	0814-LAUN-2015	0814-LAUN-2017
0814-LAUN-2019		

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-16.1 Artillery Operations
3. TM 11-5820-890-10-8 SINCGARS Ground Combat Net Radio, ICOM

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
 2. Units shall be evaluated in CBRN environment.
-

HMRS-BOC-4010: Command and control the battery

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a position area occupied by a HIMARS battery.

STANDARD: To ensure smooth flow of traffic and information through the position area without inhibiting operational capability.

EVENT COMPONENTS:

1. Establish and maintain voice and data communications (as required) with subordinate elements, launchers (as required), and appropriate higher headquarters.
2. Coordinate internal and external movement within the limits of the battery position area.
3. Ensure launchers establish firing points and hide points and update database as required (centralized).
4. Plan and coordinate platoon movement.
5. Plan and coordinate local security.
6. Coordinate logistical support for the battery as required.
7. Collect and disseminate tactical information to and from subordinate elements and higher headquarters.
8. Process and submit reports as required.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-1003
0814-LAUN-1004	0814-LAUN-1006	0814-LAUN-1008
0814-LAUN-1016	0814-LAUN-1017	0814-LAUN-2006

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-16.1 Artillery Operations
3. TM 11-5820-890-10-8 SINCGARS Ground Combat Net Radio, ICOM

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-BOC-4020: Conduct passage of control

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a movement order requiring the battery operation center to displace or a higher, adjacent, or subordinate operation center must displace, requiring the battery operation center to take control.

STANDARD: To transfer control from one headquarters to another without inhibiting operations.

EVENT COMPONENTS:

1. Establish and maintain voice and data communications (as required) with subordinate elements, launchers (as required), and appropriate higher headquarters.
2. Coordinate internal and external movement within the limits of the battery position area.
3. Ensure launchers establish firing points and hide points and update database as required (centralized).
4. Plan and coordinate platoon movement.
5. Plan and coordinate local security.
6. Collect and disseminate tactical information to and from subordinate elements and higher headquarters.
7. Conduct passage of control as per the references.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-1003
0814-LAUN-1004	0814-LAUN-1006	0814-LAUN-1008
0814-LAUN-1016	0814-LAUN-1017	0814-LAUN-2006

REFERENCES:

1. AFATDS Supervisor's Notebook (AFATDS 6.4.0.0)
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCWP 3-16.1 Artillery Operations
4. USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0) USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-BOC-4030: Assume the role of the Battalion Combat Operations Center (Emergency)

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given the battalion COC had been rendered inoperative due to attack or loss of communications.

STANDARD: Ensuring minimize impact on operations.

EVENT COMPONENTS:

1. Establish voice and digital communications with reinforced unit headquarters and/or higher artillery headquarters, and adjacent batteries.
2. Update unit data for all subordinate firing units on the situation map and in the AFATDS database.
3. Change command/support relationships in AFATDS to reflect the Battery Operations Center as the new controlling agency.
4. Assume all battalion active fire missions/fire plans.
5. Receive acknowledgement of assumption of control from controlled batteries and higher/supported units.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-1003
0814-LAUN-1004	0814-LAUN-1006	0814-LAUN-1008
0814-LAUN-1016	0814-LAUN-1017	0814-LAUN-2006

REFERENCES:

1. AFATDS Supervisor's Notebook (AFATDS 6.4.0.0)
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCWP 3-16.1 Artillery Operations
4. USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0) USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-BOC-4040: Conduct a tactical march

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

CONDITION: Given a movement order.

STANDARD: To safely navigate the battery operation center to assigned position area in accordance with the timeline set in the movement order.

EVENT COMPONENTS:

1. Movement order issued to personnel.

2. Execute type of march as directed in accordance with established doctrine, TTPs, and unit SOP.

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-1004	0814-LAUN-1006
0814-LAUN-1016	0814-LAUN-1017	0814-LAUN-1018
0814-LAUN-1019	0814-LAUN-2001	0814-LAUN-2005
0814-LAUN-2006	0814-LAUN-2011	0814-LAUN-2029
0814-LAUN-2037		

REFERENCES:

1. FM 3-25.26 Map Reading and Land Navigation
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCRP 4-11.3F Convoy Operations Handbook
4. TM 11-5820-890-10-8 SINGARS Ground Combat Net Radio, ICOM
5. TM 11-5830-263-10 Operator's Manual for Vehicular Intercommunication Set, AN/VIC-3(V)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-BTRY-4000: Perform reconnaissance, selection, and preparation of position area

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a movement order with designated primary and alternate position areas and a designated advance party.

STANDARD: To verify suitability of route and position area and facilitate main body movement in accordance with timelines set in the movement order.

EVENT COMPONENTS:

1. Perform map reconnaissance of route and position area.
2. Designate proposed tactical control measures.
3. Conduct tactical movement and ground reconnaissance of route to proposed position area.
4. Conduct security sweep and ground reconnaissance of the position to determine suitability.
5. Repeat steps 3 and 4 for alternate position area as required.
6. Communicate changes as required.
7. Prepare to guide main body into position area.

8. Establish communications.

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-1004	0814-LAUN-1006
0814-LAUN-1016	0814-LAUN-1017	0814-LAUN-1019
0814-LAUN-2001	0814-LAUN-2005	0814-LAUN-2006
0814-LAUN-2011	0814-LAUN-2029	0814-LAUN-2037

REFERENCES:

1. FM 3-25.26 Map Reading and Land Navigation
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCRP 4-11.3F Convoy Operations Handbook
4. TM 11-5820-890-10-8 SINCGARS Ground Combat Net Radio, ICOM
5. TM 11-5830-263-10 Operator's Manual for Vehicular Intercommunication Set, AN/VIC-3(V)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-LAUN-4000: Sustain the launcher section

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a launcher conducting combat operations.

STANDARD: To meet logistical requirements of equipment and Marines without impacting operational tempo and capability.

EVENT COMPONENTS:

1. Perform operator level maintenance checks and services on weapons, vehicles, and communications equipment; report and evacuate items requiring higher echelon maintenance.
2. Conduct rocket/missile reloads.
3. Coordinate section supply; report all supply shortages to the platoon leadership.
4. Ensure Basic Allowance (BA) and Critical Supply Rates (CSR) are known, followed, and reported to Platoon Leadership.
5. Report emergency resupply requirements to Platoon Sergeant immediately.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-2032
0814-LAUN-2034		

REFERENCES:

1. MCWP 4-11 Tactical-Level Logistics
2. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS
3. TM 9-2300-310-14&P Interactive Electronic Technical Manual (IETM) Operator, Field, and Sustainment Maintenance for HIMARS Launcher Chassis

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-LAUN-4010: Destroy launcher and ammunition

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a tactical situation in which the equipment is unable to be moved, the unit must displace in the face of enemy threats, and no means of transport are available.

STANDARD: To render launcher, equipment, and ammunition inoperable/unserviceable.

EVENT COMPONENTS:

1. Destroy Launcher and ammunition by the Demolition method.
2. Destroy Launcher and ammunition by the Mechanical method.
3. Destroy Launcher and ammunition by the Gunfire method.

REFERENCES:

1. FM 5-250 Explosives and Demolitions
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS
4. TM 9-2300-310-14&P Interactive Electronic Technical Manual (IETM) Operator, Field, and Sustainment Maintenance for HIMARS Launcher Chassis

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
A131 Cartridge, 7.62mm 4 Ball M80/1 Trace	400 cartridges per Team
G900 Grenade, Hand Incendiary Thermite AN	1 grenades per Team

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17581 Machine Gun Field Fire Range
Facility Code 17830 Light Demolition Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Destruction may be simulated.
2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

HMRS-POC-4000: Establish Platoon Operations Center (POC)

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given organic equipment and personnel and a position area.

STANDARD: To ensure fire mission processing and command and control capability.

EVENT COMPONENTS:

1. Occupy position area, maintaining security.
2. Establish and maintain voice and data communications (as required) with appropriate higher headquarters, launchers, and subordinate sections of the platoon.
3. Establish fire direction center.
4. Establish and maintain security integrated with the local security plan.
5. Conduct position improvement.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-1003
0814-LAUN-1004	0814-LAUN-1006	0814-LAUN-1008
0814-LAUN-1009	0814-LAUN-1010	0814-LAUN-1011
0814-LAUN-1016	0814-LAUN-1017	0814-LAUN-2001
0814-LAUN-2006	0814-LAUN-2015	0814-LAUN-2017
0814-LAUN-2019		

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-16.1 Artillery Operations
3. TM 11-5820-890-10-8 SINGARS Ground Combat Net Radio, ICOM

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-POC-4010: Command and control the platoon

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a position area occupied by a HIMARS platoon.

STANDARD: To ensure smooth flow of traffic and information through the position area without inhibiting operational capability.

EVENT COMPONENTS:

1. Establish and maintain voice and data communications (as required) with subordinate elements, launchers, and appropriate higher headquarters.
2. Coordinate internal and external movement within the limits of the platoon position area.
3. Ensure launchers establish firing points and hide points and update database as required.
4. Plan and coordinate launcher movement.
5. Plan and coordinate local security.
6. Coordinate logistical support for the platoon as required.
7. Collect and disseminate tactical information to and from subordinate elements and higher headquarters.
8. Process and submit reports as required.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-1003
0814-LAUN-1004	0814-LAUN-1006	0814-LAUN-1008
0814-LAUN-1016	0814-LAUN-1017	0814-LAUN-2006

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-16.1 Artillery Operations
3. TM 11-5820-890-10-8 SINCGARS Ground Combat Net Radio, ICOM

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
 2. Units shall be evaluated in CBRN environment.
-

HMRS-POC-4020: Conduct passage of control

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a movement order requiring the platoon operation center to displace OR a higher or adjacent operation center must displace, requiring the platoon operation center to take control.

STANDARD: To transfer control from one headquarters to another without inhibiting operations.

EVENT COMPONENTS:

1. Establish and maintain voice and data communications (as required) with subordinate elements, launchers (as required), and appropriate higher headquarters.
2. Coordinate internal and external movement within the limits of the battery position area.
3. Ensure launchers establish firing points and hide points and update database as required (centralized).
4. Plan and coordinate platoon movement.
5. Plan and coordinate local security.
6. Collect and disseminate tactical information to and from subordinate elements and higher headquarters.
7. Conduct passage of control as per the references.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-1003
0814-LAUN-1004	0814-LAUN-1006	0814-LAUN-1008
0814-LAUN-1016	0814-LAUN-1017	0814-LAUN-2006

REFERENCES:

1. AFATDS Supervisor's Notebook (AFATDS 6.4.0.0)
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCWP 3-16.1 Artillery Operations
4. USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0) USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-POC-4030: Assume the role of the Battery Operation Center (Emergency)

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 3 months

CONDITION: Given the BOC had been rendered inoperative due to attack or loss of communications.

STANDARD: To minimize impact on operations.

EVENT COMPONENTS:

1. Establish voice and digital communications with reinforced unit headquarters and/or higher artillery headquarters, and adjacent platoons.
2. Update unit data for all subordinate firing units on the situation map and in the AFATDS database.
3. Change command/support relationships in AFATDS to reflect the Platoon Operations Center as the new controlling agency.
4. Assume all battery active fire missions/fire plans.
5. Receive acknowledgement of assumption of control from controlled platoons and higher/supported units.

CHAINED EVENTS:

0814-LAUN-1001	0814-LAUN-1002	0814-LAUN-1003
0814-LAUN-1004	0814-LAUN-1006	0814-LAUN-1008
0814-LAUN-1016	0814-LAUN-1017	0814-LAUN-2006

REFERENCES:

1. AFATDS Supervisor's Notebook (AFATDS 6.4.0.0)
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCWP 3-16.1 Artillery Operations
4. USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0) USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-POC-4040: Conduct a tactical march

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 3 months

CONDITION: Given a movement order.

STANDARD: To safely navigate the platoon operation center to assigned position area in accordance with the timeline set in the movement order.

EVENT COMPONENTS:

1. Movement order issued to personnel.
2. Execute type of march as directed in accordance with established doctrine, TTPs, and unit SOP.

CHAINED EVENTS:

0814-LAUN-1003	0814-LAUN-1004	0814-LAUN-1006
0814-LAUN-1015	0814-LAUN-1016	0814-LAUN-1017
0814-LAUN-1018	0814-LAUN-1019	0814-LAUN-2001
0814-LAUN-2005	0814-LAUN-2006	0814-LAUN-2011
0814-LAUN-2029	0814-LAUN-2037	HMRS-SEC-3010

REFERENCES:

1. FM 3-25.26 Map Reading and Land Navigation
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. MCRP 4-11.3F Convoy Operations Handbook
4. TM 11-5820-890-10-8 SINGARS Ground Combat Net Radio, ICOM
5. TM 11-5830-263-10 Operator's Manual for Vehicular Intercommunication Set, AN/VIC-3(V)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-SEC-4000: Sustain the security section

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given equipment, vehicles, and crew conducting combat operations.

STANDARD: To meet logistical requirements of equipment and Marines without impacting operational tempo and capability.

EVENT COMPONENTS:

1. Perform operator level maintenance checks and services on weapons, vehicles, and communications equipment; report and evacuate items requiring higher echelon maintenance.
2. Coordinate section supply; report all supply shortages to the platoon leadership.
3. Ensure Basic Allowance (BA) and Critical Supply Rates (CSR) are known,

- followed, and reported to platoon leadership.
4. Report emergency resupply requirements to Platoon Sergeant immediately.

REFERENCES:

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
2. MCWP 4-11 Tactical-Level Logistics
3. TM 11-5820-890-10-8 SINCGARS Ground Combat Net Radio, ICOM
4. TM 2320-10/6B Truck, Utility 1 1/2 Ton (HMMWV)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

6006. INDEX OF 5000-LEVEL COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
HMRS-PLT-5000	YES	Execute digital fire mission	6-40
HMRS-PLT-5010	YES	Execute voice fire mission	6-41
HMRS-PLT-5020		Conduct tactical march	6-42
HMRS-PLT-5050		Occupy a position	6-43
HMRS-PLT-5060	YES	Defend the platoon	6-44
HMRS-PLT-5070	YES	Sustain the platoon	6-45
HMRS-PLT-5080	YES	Execute an emergency fire mission	6-46

6007. 5000-LEVEL COLLECTIVE EVENTS HMRS

HMRS-PLT-5000: Execute digital fire mission

SUPPORTED MET(S): None

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a tactical scenario; an operational firing data computation system; an operational internet relay chat client or digital messaging system; data communications between launchers, the platoon operation center, and higher headquarters or reinforced/supported unit (as appropriate); and operational launcher(s) with functioning digital fire control system(s), loaded with a trainer or rocket pod (as appropriate).

STANDARD: To process and fire a fire mission for a pre-planned or on-call target received digitally from higher headquarters or reinforced/supported unit (as appropriate) in a time limit of 4 minutes in daylight and 5 minutes in darkness/CBRN environment.

EVENT COMPONENTS:

1. Platoon operation center receives a fire mission via digital means and acknowledges receipt.
2. Platoon operation center conducts tactical fire direction and issues fire order.
3. Launcher acknowledges receipt of fire order and computes firing data.
4. Launcher fires.

CHAINED EVENTS:

HMRS-FDC-3000	HMRS-FDC-3020	HMRS-LAUN-3000
HMRS-LAUN-3010	HMRS-LAUN-3050	HMRS-POC-4000

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
H185 Rocket, Pod 298mm Practice Red Range	2 rockets per Team

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when a digital fire mission is received in the platoon operation center. Time stops when the launcher reports shot.
2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

HMRS-PLT-5010: Execute voice fire mission

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a tactical scenario; an operational firing data computation system; voice communications between launchers, the platoon operation center, and higher headquarters or reinforced/supported unit (as appropriate); and operational launcher(s) with functioning digital fire control system(s), loaded with a trainer or rocket pod (as appropriate).

STANDARD: To process and fire a fire mission for a pre-planned or on-call target received via voice transmission from higher headquarters or reinforced/supported unit (as appropriate) in a time limit of 6 minutes in daylight and 8 minutes in darkness/CBRN environment.

EVENT COMPONENTS:

1. Platoon operation center receives a fire mission via voice communications and acknowledges receipt.
2. Platoon operation center conducts tactical fire direction and issues fire order.
3. Launcher acknowledges receipt of fire order and computes firing data.
4. Launcher fires.

CHAINED EVENTS:

HMRS-FDC-3010	HMRS-FDC-3030	HMRS-LAUN-3000
HMRS-LAUN-3010	HMRS-LAUN-3060	HMRS-POC-4000

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
2. MCIP 3-16.02 Marine Rocket Battery Operations
3. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
H185 Rocket, Pod 298mm Practice Red Range	2 rockets per Team

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when a digital fire mission is received in the platoon operation center. Time stops when the launcher reports shot.
2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

HMRS-PLT-5020: Conduct tactical march

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a platoon movement order.

STANDARD: To move the platoon to the specified position in accordance with time standards contained in the movement order.

EVENT COMPONENTS:

1. Receive movement order.
2. Advance party conducts reconnaissance, selection, and preparation of position.
3. Platoon moves in type of march dictated in movement order.

CHAINED EVENTS:

HMRS-AMMO-3010	HMRS-LAUN-3010	HMRS-SEC-3000
HMRS-SEC-3010	HMRS-BOC-4040	HMRS-POC-4040

REFERENCES:

1. MCRP 4-11.3F Convoy Operations Handbook
2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
3. UNIT SOP Unit's Standing Operating Procedures

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-PLT-5050: Occupy a position

SUPPORTED MET (S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a reconnoitered, selected, and prepared position, with the platoon at the release point following a tactical march.

STANDARD: To achieve firing capability in accordance with the timeline set in the movement order.

EVENT COMPONENTS:

1. Communicate arrival at release point to the advance party.
2. Launchers occupy operations area.
3. POC established.
4. Hide sites, firing points, and reload points identified.
5. Establish local security plan.
6. Send reports to higher headquarters as required.
7. Support sections established.

CHAINED EVENTS:

HMRS-LAUN-3010	HMRS-LAUN-3030	HMRS-SEC-3000
HMRS-SEC-3020	HMRS-AMMO-4000	HMRS-AMMO-4010
HMRS-BTRY-4000	HMRS-POC-4000	HMRS-POC-4010

HMRS-SEC-4000

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units are considered fire capable when the POC is established and at least one launcher is operational.
2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

HMRS-PLT-5060: Defend the platoon

SUPPORTED MET (S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given an occupied position area with vehicles, equipment, and Marines organic to a HIMARS platoon.

STANDARD: To secure position area and facilitate fire mission processing.

EVENT COMPONENTS:

1. Establish local security plan, integrating all assets and ensuring plan is integrated with higher (as necessary).
2. Establish signal plan and maintain communications with security teams.
3. Protect launchers and command and control assets.

CHAINED EVENTS:

HMRS-LAUN-3040	HMRS-SEC-3000	HMRS-SEC-3020
HMRS-LAUN-4010	HMRS-POC-4000	HMRS-POC-4010
HMRS-SEC-4000		

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
3. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
A059 Cartridge, 5.56mm Ball M855 10/Clip	8400 cartridges per platoon
A131 Cartridge, 7.62mm 4 Ball M80/1 Trace	800 cartridges per platoon

A555 Cartridge, Caliber .50 Ball M33 Link 1000 cartridges per platoon
B542 Cartridge, 40mm HEDP M430/M430A1 Lin 768 cartridges per platoon

RANGE/TRAINING AREA: Facility Code 17420 Maneuver/Training Area, Heavy Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Local Security Diagrams must be completed and submitted within three hours of position occupation.
2. Units shall be evaluated in day and night conditions.
3. Units shall be evaluated in CBRN environment.

HMRS-PLT-5070: Sustain the platoon

SUPPORTED MET (S): None

EVALUATION-CODED: YES SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a HIMARS platoon conducting continuous combat operations.

STANDARD: To meet logistical requirements of equipment and Marines without impacting operational tempo and capability.

EVENT COMPONENTS:

1. Report emergency re-supply requirements to battery leadership immediately.
2. Perform operator level maintenance checks and services on weapons, vehicles, and communications equipment; report and evacuate items requiring higher echelon maintenance.
3. Establish re-supply points and coordinate rocket/missile reloads.
4. Coordinate section supply; report all supply shortages to the battery leadership.
5. Manage maintenance records.
6. Coordinate equipment recovery.
7. Coordinate medical support for the platoon and plan for air and ground MEDEVAC.
8. Ensure Basic Allowance (BA) and Critical Supply Rates (CSR) are known, followed, and reported according to SOP.

CHAINED EVENTS:

0814-LAUN-2032	0814-LAUN-2034	HMRS-AMMO-3000
HMRS-AMMO-3020	HMRS-AMMO-4000	HMRS-AMMO-4010
HMRS-AMMO-4020	HMRS-LAUN-4000	HMRS-POC-4000
HMRS-SEC-4000		

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-16.1 Artillery Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Units shall be evaluated in day and night conditions.
2. Units shall be evaluated in CBRN environment.

HMRS-PLT-5080: Execute an emergency fire mission

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a fire mission requiring immediate action while in a tactical road march.

STANDARD: To execute fire mission within 6 minutes in daylight and 8 minutes in darkness/CBRN environment.

EVENT COMPONENTS:

1. Acknowledge receipt of fire mission at FDC.
2. Halt convoy and establish security.
3. Process fire mission through the FDC.
4. Acknowledge receipt of fire mission at launcher.
5. Move launchers to hasty operations area and select useable firing points; ensure firing launchers have security.
6. Execute fire mission at launcher.
7. Reassemble convoy and continue tactical movement.

CHAINED EVENTS:

HMRS-AMMO-3010	HMRS-FDC-3000	HMRS-FDC-3010
HMRS-FDC-3020	HMRS-FDC-3030	HMRS-LAUN-3000
HMRS-LAUN-3020	HMRS-LAUN-3040	HMRS-LAUN-3050
HMRS-LAUN-3060	HMRS-SEC-3010	HMRS-BOC-4040
HMRS-LAUN-3080		

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-16.1 Artillery Operations

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
H185 Rocket, Pod 298mm Practice Red Range	6 rounds per Team

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when a fire mission is received in the platoon operation center. Time stops when the launcher reports shot.
 2. Units shall be evaluated in day and night conditions.
 3. Units shall be evaluated in CBRN environment.
-

ARTILLERY T&R MANUAL

CHAPTER 7

TAP COLLECTIVE EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
PURPOSE	7000	7-2
ADMINISTRATIVE NOTES.	7001	7-2
INDEX OF 3000-LEVEL COLLECTIVE EVENTS RADR.	7002	7-2
3000-LEVEL COLLECTIVE EVENTS RADR	7003	7-2
INDEX OF 3000-LEVEL COLLECTIVE EVENTS SENS.	7004	7-8
3000-LEVEL COLLECTIVE EVENTS SENS	7005	7-9
INDEX OF 4000- AND 5000-LEVEL COLLECTIVE EVENTS	7006	7-20
4000- AND 5000-LEVEL COLLECTIVE EVENTS.	7007	7-20

ARTILLERY T&R MANUAL

CHAPTER 7

TAP COLLECTIVE EVENTS

7000. PURPOSE. This chapter includes all 3000-, 4000- and 5000-level Target Acquisition Platoon (TAP) collective events. A collective event is an event that an established unit would perform in combat. These events are linked to a Service-Level Mission Essential Task (MET). This linkage tailors collective and individual training for the selected MET. Each collective event is composed of component events that provide the major actions required. This may be likely actions, list of functions, or procedures. Accomplishment and proficiency level required of component events are determined by the event standard.

7001. ADMINISTRATIVE NOTES. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the occupational field, "Arty". The second four digits represent the functional or duty area [(e.g. Radar (RADR), Sensor (SENS), etc.)]. The last four digits represent the level, and identifier number of the event. Every event has a unique identifier number from 001 to 999.

7002. INDEX OF 3000-LEVEL COLLECTIVE EVENTS RADR

Event Code	Eval Code	Event	Page
ARTY-RADR-3000		Perform site selection for the AN/TPQ46 RADAR	7-2
ARTY-RADR-3050		Emplace the AN/TPQ-46 Radar	7-3
ARTY-RADR-3100		Operate the AN/TPQ 46 Radar	7-4
ARTY-RADR-3150		Displace AN/TPQ-46 Radar	7-5
ARTY-RADR-3200		Conduct Target Processing Center (TPC) Operations	7-5
ARTY-RADR-3300		Perform site selection for the LCMR	7-6
ARTY-RADR-3350		Emplace the LCMR	7-7
ARTY-RADR-3450		Displace the LCMR Radar	7-7

7003. 3000-LEVEL COLLECTIVE EVENTS RADR

ARTY-RADR-3000: Perform site selection for the AN/TPQ46 RADAR

SUPPORTED MET (S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a RADAR Plan, a RADAR Deployment Order (RDO), map of operational area, survey equipment, and the references.

STANDARD: Within 500 meters of the RDO, and maximizes the capabilities of the radar IAW with the references.

EVENT COMPONENTS:

1. Perform route reconnaissance.
2. Select suitable site.
3. Issue movement order to RADAR team.
4. Develop security plan.
5. Conduct hasty survey.
6. Perform manual terrain following.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. TM 11-5840-380-10 Radar Set AN/TPQ-36(V8) Operators Manual

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. If a suitable site cannot be located within 500 meters of RDO, RADAR team must request new site from the TPC.
2. If higher echelon survey is available, hasty survey event component is not required.
3. If available, a sub-mil kit can be used for hasty survey.

ARTY-RADR-3050: Emplace the AN/TPQ-46 Radar

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a RADAR Plan, a RDO, map of operational area, a suitable site, and the references.

STANDARD: In a time limit of 10 minutes.

EVENT COMPONENTS:

1. Emplace Antenna Trailer Group.
2. Emplace Generator Trailer Group.
3. Emplace Operations Control Group.
4. Conduct RADAR initialization.
5. Establish communications.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. TM 11-5840-380-10 Radar Set AN/TPQ-36(V8) Operators Manual

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. Time does not include netting or enhanced communication antennas.
 2. Time Starts: When ATG has passed over the hub.
 3. Time Stops: When radar team reports FM; OBCO.
 4. Security posture is maintained during emplacement.
-

ARTY-RADR-3100: Operate the AN/TPQ 46 Radar

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given emplaced radar, and a TPC.

STANDARD: Processing acquisitions IAW TM 11-5840-380-10.

EVENT COMPONENTS:

1. Perform hostile fire operations.
2. Perform friendly fire operations.
3. Operate in an electronic warfare environment.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. TM 11-5840-380-10 Radar Set AN/TPQ-36(V8) Operators Manual
3. TM 750-244-2 Procedures for Destruction of Electronic Material to Prevent Enemy Use (Electronic Command)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17410 Maneuver/Training Area, Light Forces
Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17670 Mortar Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. Simulation software can be used if firing units are not available.
2. Friendly fire buffer information has to be provided for friendly mode.

ARTY-RADR-3150: Displace AN/TPQ-46 Radar

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a RADAR Plan, a RDO, map of OA, a selected site, and the references.

STANDARD: In a time limit of 6 minutes.

EVENT COMPONENTS:

1. Displace Operations Control Group.
2. Prepare for helicopter movement.
3. Displace Antenna Trailer Group.
4. Displace Generator Trailer Group.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. TM 11-5840-380-10 Radar Set AN/TPQ-36(V8) Operators Manual

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. Time does not include netting or enhanced communication antennas, or preparation for helicopter movement.
2. Time Starts: When team chief issues movement order.
3. Time Stops: When remaining vehicles are staged in convoy order.
4. Security posture is maintained during displacement.

ARTY-RADR-3200: Conduct Target Processing Center (TPC) Operations

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a RADAR Plan, Combat Operations Center, equipment organic to the Target Acquisition Platoon, and the references.

STANDARD: IAW the RADAR Plan.

EVENT COMPONENTS:

1. Emplace TPC.
2. Manage RADAR operations.
3. Establish communications.
4. Displace TPC.

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.1A Tactics, Techniques, and Procedures for Target Acquisition
3. TM 11-5840-380-10 Radar Set AN/TPQ-36(V8) Operators Manual
4. TM 11-5840-389-10 LCMR Operator's Manual

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

ARTY-RADR-3300: Perform site selection for the LCMR

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a RADAR Plan, a RDO, map of operational area, survey equipment, and the references.

STANDARD: Ensuring the Radar site is within 500 meters of the RDO, and maximizes the capabilities of the Radar IAW with the references.

EVENT COMPONENTS:

1. Perform the route reconnaissance.
2. Select a suitable site.
3. Issue movement order to LCMR team.
4. Develop a security plan.
5. Conduct hasty survey.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. TM 11-5840-389-10 LCMR Operator's Manual

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. If suitable site cannot be located within 500 meters of RDO, LCMR team must request new site from higher authority.

2. If higher echelon survey is available, hasty survey event component is not required.
3. If available, a sub-mil kit can be used for hasty survey.

ARTY-RADR-3350: Emplace the LCMR

SUPPORTED MET (S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a RADAR Plan, a RDO, map of operational area, a suitable site, and the references.

STANDARD: In a time limit of 20 minutes.

EVENT COMPONENTS:

1. Assemble RADAR.
2. Set up the computer system.
3. Establish power.
4. Conduct RADAR initialization.
5. Establish communications.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. TM 11-5840-389-10 LCMR Operator's Manual

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. Time does not include netting or enhanced communication antennas.
2. Time Starts: When the tripod has passed over the hub.
3. Time Stops: When LCMR team reports FM: OBCO.
4. Security posture is maintained during emplacement.

ARTY-RADR-3450: Displace the LCMR Radar

SUPPORTED MET (S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a RADAR Plan, a RDO, map of operational area, a suitable site, and the references.

STANDARD: In a time limit of 10 minutes.

EVENT COMPONENTS:

1. Disassemble RADAR.
2. Disassemble computer system.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. TM 11-5840-389-10 LCMR Operator's Manual

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. Time does not include netting or enhanced communication antennas.
2. Time Starts: When team chief issues movement order
3. Time Stops: When all transit cases are ready for movement
4. Security posture is maintained during emplacement.

7004. INDEX OF 3000-LEVEL COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
ARTY-SENS-3000		Conduct Route Reconnaissance	7-9
ARTY-SENS-3001	YES	Perform Position Area Survey	7-9
ARTY-SENS-3002	YES	Perform Target Area Survey	7-10
ARTY-SENS-3003	YES	Perform Connection Area Survey	7-11
ARTY-SENS-3100	YES	Perform Site Selection for the Meteorological Station Group	7-12
ARTY-SENS-3101	YES	Emplace Meteorological Station Group	7-13
ARTY-SENS-3102	YES	Conduct Electronic Meteorological Operations	7-14
ARTY-SENS-3103	YES	Displace Meteorological Station Group	7-14
ARTY-SENS-3104	YES	Conduct Visual Meteorological Operations	7-15
ARTY-SENS-3200		Emplace Acoustic Command Post	7-16
ARTY-SENS-3201		Perform Acoustic Command Post Operations	7-16
ARTY-SENS-3202		Displace Acoustic Command Post	7-17
ARTY-SENS-3203		Emplace Acoustic Sensor Post	7-18
ARTY-SENS-3204		Displace Acoustic Sensor Post	7-18
ARTY-SENS-3205		Conduct Geospatial Information Center (GIC) Operations	7-19

7005. 3000-LEVEL COLLECTIVE EVENTS SENS

ARTY-SENS-3000: Conduct Route Reconnaissance

SUPPORTED MET(S): None

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 3 months

CONDITION: Given an Operations Order, a Sensor Plan, map of the operational area, and the references.

STANDARD: IAW the Operations Order.

EVENT COMPONENTS:

1. Plan the reconnaissance.
2. Coordinate with maneuver units.
3. Perform reconnaissance of primary/alternate routes.
4. Report suitability of primary/alternate positions.
5. Report supplementary positions as time permits.
6. Report intelligence.
7. Emplace markers.

CHAINED EVENTS:

0847-SEN-1005	0847-SEN-1100	0848-SEN-2504
0803-SEN-2105	0847-SEN-2002	

REFERENCES:

1. FM 3-25.26 Map Reading and Land Navigation
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-16.7 Marine Artillery Survey Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

ARTY-SENS-3001: Perform Position Area Survey

SUPPORTED MET(S): None

EVALUATION-CODED: YES SUSTAINMENT INTERVAL: 3 months

CONDITION: Given an Operations Order, a Sensor Plan, map of the operational area, equipment organic to a sensor section, and the references.

STANDARD: IAW the Sensor Plan.

EVENT COMPONENTS:

1. Establish artillery/mortar firing position(s).
2. Establish declination station(s).
3. Establish meteorological position(s).
4. Establish RADAR position(s).

CHAINED EVENTS:

0847-SEN-1001	0848-SEN-2500	0803-SEN-2103
0847-SEN-1007	0847-SEN-1008	0803-CORE-2900
0803-SEN-2102	0803-SEN-2104	0847-SEN-2000
0848-SEN-2503	0803-SEN-2100	0847-SEN-1002
0847-SEN-1003	0847-SEN-1004	0847-SEN-1005
0847-SEN-1006		

REFERENCES:

1. DMA TM 8358.1 (EDITION 1) DATUMS, ELLIPSOIDS, GRIDS, AND GRID REFERENCES SYSTEM
2. DMA TR 8350.2 DoD World Geodetic System 1984
3. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
4. MCWP 3-16.1 Artillery Operations
5. MCWP 3-16.7 Marine Artillery Survey Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. All position area requirements may not be listed in the Sensor Plan.
2. Survey must be completed with a combination of conventional, INS, and GPSS means.
3. Security posture is maintained.

ARTY-SENS-3002: Perform Target Area Survey

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given an Operations Order, a Sensor Plan, map of the operational area, equipment organic to a sensor section, and the references.

STANDARD: IAW the Sensor Plan.

EVENT COMPONENTS:

1. Establish surveyed observation post(s).
2. Establish surveyed target(s).
3. Establish acoustic sensor position(s).

CHAINED EVENTS:

0803-SEN-2102	0847-SEN-1001	0848-SEN-2504
0847-SEN-1002	0847-SEN-1003	0847-SEN-1004
0847-SEN-1006	0847-SEN-1007	0847-SEN-2003
0803-CORE-2900	0803-SEN-2100	0803-SEN-2104

0847-SEN-2000 0847-SEN-1005 0847-SEN-1008
0803-SEN-2103 0848-SEN-2503

REFERENCES:

1. DMA TM 8358.1 (EDITION 1) DATUMS, ELLIPSOIDS, GRIDS, AND GRID REFERENCES SYSTEM
2. DMA TR 8350.2 DoD World Geodetic System 1984
3. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
4. MCWP 3-16.1 Artillery Operations
5. MCWP 3-16.7 Marine Artillery Survey Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. All target area requirements may not be listed in the Sensor Plan.
2. Survey must be completed with a combination of conventional, INS, and GPSS means.
3. Security posture is maintained.

ARTY-SENS-3003: Perform Connection Area Survey

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given an Operations Order, a Sensor Plan, map of the operational area, equipment organic to a sensor section, and the references.

STANDARD: Ensuring target area and position area are tied into a common network.

EVENT COMPONENTS:

1. Maintain common control.
2. Establish control for non-organic assets.

CHAINED EVENTS:

0847-SEN-1003	0848-SEN-2503	0847-SEN-1007
0847-SEN-1001	0847-SEN-1002	0847-SEN-1004
0847-SEN-1006	0847-SEN-1008	0847-SEN-1009
0803-CORE-2900	0803-SEN-2100	0803-SEN-2102
0803-SEN-2103	0803-SEN-2104	0847-SEN-2000
0848-SEN-2500	0847-SEN-1005	

REFERENCES:

1. DMA TM 8358.1 (EDITION 1) DATUMS, ELLIPSOIDS, GRIDS, AND GRID REFERENCES

- SYSTEM
2. DMA TR 8350.2 DoD World Geodetic System 1984
 3. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
 4. MCWP 3-16.1 Artillery Operations
 5. MCWP 3-16.7 Marine Artillery Survey Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. All connection area requirements may not be listed in the Sensor Plan.
2. Survey must be completed with a combination of conventional, INS, and GPSS means.
3. Security posture is maintained.

ARTY-SENS-3100: Perform Site Selection for the Meteorological Station Group

SUPPORTED MET (S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a Sensor Plan, map of operational area, equipment organic to the Sensor Section, and the references.

STANDARD: That allows for operations within 500 meters of the given position IAW the Sensor Plan.

EVENT COMPONENTS:

1. Perform the route reconnaissance.
2. Select a suitable site.
3. Develop a security plan.
4. Conduct hasty survey.

CHAINED EVENTS:

0847-SEN-1100	0847-SEN-1006	0847-SEN-1005
0803-SEN-2101	0848-SEN-2202	0803-CORE-2900

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.7 Marine Artillery Survey Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. If suitable site cannot be located within 500 meters of Sensor Plan, the Meteorological team must request new site from the GIC.
 2. If higher echelon survey is available, hasty survey event component is not required.
 3. Security posture is maintained.
-

ARTY-SENS-3101: Emplace Meteorological Station Group

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a Sensor Plan, map of operational area, equipment organic to the Sensor Section, a suitable site with survey control, and the references.

STANDARD: In a time limit of 20 minutes.

EVENT COMPONENTS:

1. Emplace shelter.
2. Establish system power.
3. Erect the Radio Direction Finder.
4. Initialize system.
5. Establish communications.

CHAINED EVENTS:

0847-SEN-1101	0803-SEN-2101	0848-SEN-2203
0848-SEN-2202	0848-SEN-2201	

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.7 Marine Artillery Survey Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. Time does not include netting or enhanced communication antennas.
 2. Time Starts: When shelter vehicle stops.
 3. Time Stops: When the event components are complete.
 4. Security posture is maintained.
-

ARTY-SENS-3102: Conduct Electronic Meteorological Operations

SUPPORTED MET (S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a Sensor Plan, map of operational area, equipment organic to the Sensor Section, an emplaced Meteorological Station Group, and the references.

STANDARD: Producing valid NATO STANAG Meteorological messages IAW MCWP 3-16.7.

EVENT COMPONENTS:

1. Perform pre-flight.
2. Conduct GPS sounding.
3. Conduct RDF sounding.
4. Transmit required MET messages.

CHAINED EVENTS:

0848-SEN-2201	0803-SEN-2101	0848-SEN-2203
0848-SEN-2202	0847-SEN-1101	

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.7 Marine Artillery Survey Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

ARTY-SENS-3103: Displace Meteorological Station Group

SUPPORTED MET (S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a Sensor Plan, map of operational area, an emplaced Meteorological Station Group, and the references.

STANDARD: In a time limit of 15 minutes.

EVENT COMPONENTS:

1. Displace generator trailer group.
2. Displace Radio Direction Finder.
3. Displace shelter.

CHAINED EVENTS:

0803-SEN-2101	0847-SEN-1100	0847-SEN-1101
0848-SEN-2203	0848-SEN-2202	

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.7 Marine Artillery Survey Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. Time does not include netting or enhanced communication antennas.
 2. Time Starts: When team chief issues movement order.
 3. Time Stops: When vehicles are staged in convoy order.
 4. Security posture is maintained.
-

ARTY-SENS-3104: Conduct Visual Meteorological Operations

SUPPORTED MET(S): None

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given a Sensor Plan, map of operational area, equipment organic to a sensor section, and the references.

STANDARD: Producing a valid Computer and Ballistic type 3 MET message.

EVENT COMPONENTS:

1. Perform site selection.
2. Emplace equipment.
3. Perform PiBal observations.
4. Perform computations.
5. Disseminate MET message(s).
6. Displace equipment.

CHAINED EVENTS:

0847-SEN-1100	0847-SEN-1102	0848-SEN-2201
0803-SEN-2101	0848-SEN-2203	0848-SEN-2202

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.7 Marine Artillery Survey Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

ARTY-SENS-3200: Emplace Acoustic Command Post

SUPPORTED MET (S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

CONDITION: Given a Sensor Plan, map of operational area, equipment organic to the Sensor Section, and the references.

STANDARD: In a time limit of 30 minutes.

EVENT COMPONENTS:

1. Emplace 10 meter MET mast.
2. Emplace Command Post Computer.
3. Establish communications.

CHAINED EVENTS:

0848-SEN-2502 0803-SEN-2106 0847-SEN-1202

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. MCWP 3-16.7 Marine Artillery Survey Operations
3. TM 11138A-OR Operators Manual Ground Counter Fire Sensor

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. Sensor Post authentication does not count against time.
 2. Time Starts: When emplacement order is issued.
 3. Time Stops: When the Data Fusion Processor is ready to authenticate Sensor Posts.
 4. Security posture is maintained.
-

ARTY-SENS-3201: Perform Acoustic Command Post Operations

SUPPORTED MET (S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

CONDITION: Given a Sensor Plan, acoustic events, map of operational area, equipment organic to the Sensor Section, emplaced acoustic system, and the references.

STANDARD: Ensuring system maintains operational capability.

EVENT COMPONENTS:

1. Process acoustic events.
2. Monitor sensor posts.
3. Perform power management.

CHAINED EVENTS:

0847-SEN-1202 0848-SEN-2502 0803-SEN-2106
0847-SEN-1200

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. MCWP 3-16.7 Marine Artillery Survey Operations
3. TM 11138A-OR Operators Manual Ground Counter Fire Sensor

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

ARTY-SENS-3202: Displace Acoustic Command Post

SUPPORTED MET (S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

CONDITION: Given a Sensor Plan, map of operational area, equipment organic to the Sensor Section, emplaced acoustic system, and the references.

STANDARD: In a time limit of 20 minutes.

EVENT COMPONENTS:

1. Displace 10 meter mast.
2. Displace Command Post Computer.
3. Displace Communications Processor Group.

CHAINED EVENTS:

0847-SEN-1202 0848-SEN-2502 0803-SEN-2106

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. MCWP 3-16.7 Marine Artillery Survey Operations
3. TM 11138A-OR Operators Manual Ground Counter Fire Sensor

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. Time Starts: When team chief issues movement order.
2. Time Stops: When vehicles are staged in convoy order.
3. Security posture is maintained.

ARTY--SENS-3203: Emplace Acoustic Sensor Post

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

CONDITION: Given a Sensor Plan, map of operational area, equipment organic to the Sensor Section, and the references.

STANDARD: In a time limit of 20 minutes.

EVENT COMPONENTS:

1. Perform Site Selection.
2. Emplace Microphones.
3. Conduct survey.
4. Erect Meteorological Mast.
5. Perform Cluster Processor operations.
6. Perform Sensor Post Acoustic Test.

CHAINED EVENTS:

0847-SEN-1200 0803-SEN-2106 0848-SEN-2502
0847-SEN-1201

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. MCWP 3-16.7 Marine Artillery Survey Operations
3. TM 11138A-OR Operators Manual Ground Counter Fire Sensor

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. Time Starts: When microphone 1 position is determined.
2. Time Stops: When Sensor Post Acoustic Test is performed.

ARTY--SENS-3204: Displace Acoustic Sensor Post

SUPPORTED MET(S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

CONDITION: Given a Sensor Plan, map of operational area, emplaced Sensor Post, and the references.

STANDARD: In a time limit of 10 minutes.

EVENT COMPONENTS:

1. Displace Cluster Processor.
2. Displace Meteorological Mast.
3. Displace Microphones.

CHAINED EVENTS:

0848-SEN-2502 0803-SEN-2106 0847-SEN-1201

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. MCWP 3-16.7 Marine Artillery Survey Operations
3. TM 11138A-OR Operators Manual Ground Counter Fire Sensor

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS:

1. Time Starts: Upon arrival at position.
 2. Time Stops: Upon departure of position.
-

ARTY-SENS-3205: Conduct Geospatial Information Center (GIC) Operations

SUPPORTED MET (S): None

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given a Sensor Plan, Combat Operations Center, equipment organic to the Target Acquisition Platoon, and the references.

STANDARD: IAW the Sensor Plan.

EVENT COMPONENTS:

1. Emplace GIC.
2. Manage Sensor operations.
3. Establish communications.
4. Displace GIC.

CHAINED EVENTS:

0803-SEN-2100 0847-SEN-1002 0847-SEN-1201

0847-SEN-1202 0848-SEN-2503 0847-SEN-1009
0803-CORE-2900 0803-SEN-2102 0848-SEN-2500
0847-SEN-1001

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-16.7 Marine Artillery Survey Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17410 Maneuver/Training Area, Light Forces

7006. INDEX OF 4000-LEVEL COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
ARTY-RADR-4000	YES	Provide Field Artillery RADAR support to the Ground Combat Element	7-20
ARTY-SENS-4000	YES	Provide Field Artillery Sensor Support to the Ground Combat Element	7-21
ARTY-TAP-5000	YES	Provide Field Artillery Target Acquisition Platoon (TAP) Support to the MAGTF	7-22

7007. 4000-LEVEL COLLECTIVE EVENTS TAP

ARTY-RADR-4000: Provide Field Artillery RADAR support to the Ground Combat Element

SUPPORTED MET(S): 7

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 3 months

CONDITION: Given an operations order and the references.

STANDARD: IAW the operations order.

EVENT COMPONENTS:

1. Perform RADAR team operations.
2. Perform TPC operations.

CHAINED EVENTS:

ARTY-RADR-3000 ARTY-RADR-3050 ARTY-RADR-3200
ARTY-RADR-3450 ARTY-RADR-3150 ARTY-RADR-3300
ARTY-RADR-3350 ARTY-RADR-3100

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.1A Tactics, Techniques, and Procedures for Target Acquisition
3. TM 11-5840-380-10 Radar Set AN/TPQ-36(V8) Operators Manual
4. TM 11-5840-389-10 LCMR Operator's Manual
5. TM 750-244-2 Procedures for Destruction of Electronic Material to Prevent Enemy Use (Electronic Command)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

ARTY-SENS-4000: Provide Field Artillery Sensor Support to the Ground Combat Element

SUPPORTED MET (S): 7

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given an Operations Order and the references.

STANDARD: IAW the Operations Order.

EVENT COMPONENTS:

1. Perform Sensor Team operations.
2. Perform GIC operations.

CHAINED EVENTS:

ARTY-SENS-3201	0847-SEN-1300	ARTY-SENS-3205
ARTY-SENS-3000	ARTY-SENS-3001	ARTY-SENS-3002
ARTY-SENS-3003	ARTY-SENS-3100	ARTY-SENS-3101
ARTY-SENS-3102	ARTY-SENS-3103	ARTY-SENS-3104
ARTY-SENS-3200	ARTY-SENS-3203	ARTY-SENS-3204
0803-CORE-2902	0803-CORE-2903	0847-SEN-2001
0848-SEN-2203	0848-SEN-2506	ARTY-SENS-3202

REFERENCES:

1. DMA TM 8358.1 (EDITION 1) DATUMS, ELLIPSOIDS, GRIDS, AND GRID REFERENCES SYSTEM
2. DMA TR 8350.2 DoD World Geodetic System 1984
3. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
4. MCWP 3-16.1 Artillery Operations
5. MCWP 3-16.7 Marine Artillery Survey Operations
6. TM 11138A-OR Operators Manual Ground Counter Fire Sensor

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

ARTY-TAP-5000: Provide Field Artillery Target Acquisition Platoon (TAP)
Support to the MAGTF

SUPPORTED MET(S): 6

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

CONDITION: Given an operations order and the references.

STANDARD: IAW the operations order.

EVENT COMPONENTS:

1. Provide a TAP in support of MEF.
2. Provide a Target Acquisition Detachment in support of a MEB.
3. Provide a Target Acquisition Section in support of a MEU.

CHAINED EVENTS:

ARTY-RADR-4000 ARTY-SENS-4000

REFERENCES:

1. MCWP 3-16.7 Marine Artillery Survey Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light
Forces

ARTILLERY T&R MANUAL

CHAPTER 8

FDC COLLECTIVE EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
PURPOSE	8000	8-2
ADMINISTRATIVE NOTES.	8001	8-2
GLOSSARY OF TERMS	8002	8-2
INDEX OF 4000-LEVEL COLLECTIVE EVENTS	8003	8-2
TECHNICAL FDC FIRE MISSION TIME STANDARDS	8004	8-2
4000-LEVEL COLLECTIVE EVENTS.	8005	8-3

ARTILLERY T&R MANUAL

CHAPTER 8

FDC COLLECTIVE EVENTS

8000. PURPOSE. This chapter includes all 4000-level Fire Direction Center (FDC) collective events. A collective event is an event that an established unit would perform in combat. These events are linked to a Service-Level Mission Essential Task (MET). This linkage tailors collective and individual training for the selected MET. Each collective event is composed of component events that provide the major actions required. This may be likely actions, list of functions, or procedures. Accomplishment and proficiency level required of component events are determined by the event standard.

8001. ADMINISTRATIVE NOTES. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the occupational field, "Arty". The second four digits represent the functional or duty area. The last four digits represent the level, and identifier number of the event. Every event has a unique identifier number from 001 to 999.

8002. GLOSSARY OF TERMS

1. FDC- FIRE DIRECTION CENTER
2. MVV- MUZZLE VELOCITY VARIATIONS
3. HAS- HIGHER/ ADJACENT/ SUPPORTED
4. BUCS- BACKUP COMPUTER SYSTEM
5. CFF- CALL FOR FIRE

8003. INDEX OF 4000-LEVEL COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
ARTY-FDC-4001		Prepare for artillery fires	8-3
ARTY-FDC-4002	YES	Conduct technical fire direction	8-4
ARTY-FDC-4003	YES	Conduct tactical fire direction	8-5

8004. TECHNICAL FDC FIRE MISSION TIME STANDARDS

MISSION	INITIAL RD			SUBS RD			FFE RD		
	AFATDS	BUCS	Man	AFATDS	BUCS	Man	AFATDS	BUCS	Man
AF/FFE	1	2	1:30	:30	1:15	:30	1:15	1:15	:30
IMM SUP	:30	2	:30						
QCK SMK	2	2	3	:30	1:15	1	2	4	4
IMM SMK	:30	2	:30						
PLND TGT	:45	2	:30						
ILLUM	1	2	1:30	:30	1:15	:30	:45	1:45	1:15
COORD ILL									
:ILLUM	1	2	1:30	:30	1:15	:30	:30	1:15	:30
:HE	1:30	2:15	1:45	:30	1:15	:30	:30	1:15	:30
RAP	1	2	10						
DUAL MSNS									
:MSN 1	1	2	1:30	:45	1:30	:45	:45	1:30	:45
:MSN 2	1:15	2:15	1:45						

8005. 4000-LEVEL COLLECTIVE EVENTS

ARTY-FDC-4001: Prepare for artillery fires

SUPPORTED MET(S): None

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 3 months

DESCRIPTION: The section performs actions necessary to establish an FDC.

CONDITION: Given an SL-3 complete FDC.

STANDARD: Ensuring the FDC is capable of receiving and processing calls for fire.

EVENT COMPONENTS:

1. Conduct PMCS.
2. Conduct rehearsals.
3. Occupy position.
4. Establish communications with HAS.
5. Transmit CP report/firecap to appropriate HQ.

CHAINED EVENTS:

0844-FDC-2002	0848-FDC-2007	0848-FDC-2008
0848-FDC-2009	0848-FDC-2014	0844-FDC-1001
0844-FDC-1007	0848-FDC-2001	0848-FDC-2002
0848-FDC-2006	0844-FDC-2001	0844-FDC-2003
0844-FDC-1008		

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCWP 3-16.2A Advanced Field Artillery Tactical Data System Tactics, Techniques and Procedures (AFATDS TTPs)
3. MCWP 3-16.4 Tactics, Techniques and Procedures for the Field Artillery Manual Cannon Gunnery

4. UNIT SOP Unit's Standing Operating Procedures

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17330 Covered Training Area

Facility Code 17413 Field Training Area

EQUIPMENT: SL-3 complete FDC

ARTY-FDC-4002: Conduct technical fire direction

SUPPORTED MET (S): 8

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 4 months

DESCRIPTION: The section performs actions necessary to accurately process fire missions.

CONDITION: Given an SL-3 complete FDC.

STANDARD: In order to accurately process calls for fire and transmit fire commands to the gun line.

EVENT COMPONENTS:

1. Meet the five requirements for accurate predicted fire.
2. Conduct fire mission processing.
3. Perform the five steps to improve firing data.
4. Maintain a tactical situation map.

CHAINED EVENTS:

0844-FDC-1005	0848-FDC-2018	0844-FDC-2002
0844-FDC-2003	0844-FDC-2004	0844-FDC-2005
0844-FDC-2006	0848-FDC-2006	0848-FDC-2007
0848-FDC-2008	0848-FDC-2009	0848-FDC-2010
0848-FDC-2011	0848-FDC-2012	0848-FDC-2015
0848-FDC-2016	0848-FDC-2003	0844-FDC-1007
0848-FDC-2001	0848-FDC-2004	0848-FDC-2005
0848-FDC-2013	0848-FDC-2014	0848-FDC-2017
0844-FDC-1002	0844-FDC-1003	0844-FDC-1004
0844-FDC-1006	0844-FDC-1008	0844-FDC-2001

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. Job Aid Current automated system job aides
3. MCWP 3-16.4 Tactics, Techniques and Procedures for the Field Artillery Manual Cannon Gunnery
4. UNIT SOP Unit's Standing Operating Procedures

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17413 Field Training Area
Facility Code 17330 Covered Training Area

EQUIPMENT: SL-3 complete FDC

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

KEY INDICATORS: The FDC must receive the XO's Report, determine a solution for intervening crests (min QE or HI angle), and verify primary and secondary means of technical fire direction prior to transmitting FIRECAP.

ARTY-FDC-4003: Conduct tactical fire direction

SUPPORTED MET(S): 8

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 3 months

DESCRIPTION: The section performs actions necessary to accurately process fire missions.

CONDITION: Given an operational FDC and firing agencies.

STANDARD: In order to provide fires to HAS IAW MCWP 3-16.1 Artillery Operations.

EVENT COMPONENTS:

1. Coordinate TOT missions.
2. Execute schedule of fires.
3. Coordinate mass fires.
4. Coordinate FASCAM mine field
5. Conduct simultaneous missions.
6. Segment mission for an irregularly shaped target.
7. Maintain a tactical situation map.
8. Integrate HIMARS into Artillery Cannon Operations.

CHAINED EVENTS:

0844-FDC-1007	0848-FDC-2018	0844-FDC-2002
0844-FDC-2003	0844-FDC-2005	0844-FDC-2006
0844-FDC-2007	0844-FDC-2008	0848-FDC-2001
0848-FDC-2006	0848-FDC-2007	0848-FDC-2008
0848-FDC-2011	0848-FDC-2014	0848-FDC-2015
0844-FDC-2001		

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
 2. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
 3. MCWP 3-16.1 Artillery Operations
 4. MCWP 3-16.2 Procedures for the Marine Corps Fire Support
 5. MCWP 3-42.1 Fire Support in MAGTF Operations
 6. UNIT SOP Unit's Standing Operating Procedures
-

ARTILLERY T&R MANUAL

CHAPTER 9

FST COLLECTIVE EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
PURPOSE	9000	9-2
ADMINISTRATIVE NOTES.	9001	9-2
INDEX OF 4000-LEVEL COLLECTIVE EVENTS	9002	9-2
4000-LEVEL COLLECTIVE EVENTS.	9003	9-3

ARTILLERY T&R MANUAL

CHAPTER 9

FST COLLECTIVE EVENTS

9000. PURPOSE. This chapter includes all 4000-level Fire Support Team (FST) collective events. A collective event is an event that an established unit would perform in combat. These events are linked to a Service-Level Mission Essential Task (MET). This linkage tailors collective and individual training for the selected MET. Each collective event is composed of component events that provide the major actions required. This may be likely actions, list of functions, or procedures. Accomplishment and proficiency level required of component events are determined by the event standard.

9001. ADMINISTRATIVE NOTES. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the occupational field, "FSCC". The second four digits represent the functional or duty area [(e.g. Battalion Fire Support Team (BFST), Regimental Fire Support Team (RFST), etc.)]. The last four digits represent the level, and identifier number of the event. Every event has a unique identifier number from 001 to 999.

9002. INDEX OF 4000-LEVEL COLLECTIVE EVENTS

Event Code	Eval Code	Event	Page
FSCC-DFST-4000	YES	Establish a division fire support coordination center	9-3
FSCC-DFST-4005	YES	Conduct fire support planning at the Division level	9-4
FSCC-DFST-4010	YES	Conduct fire support coordination at the Division level	9-5
FSCC-DFST-4015	YES	Conduct fire support execution at the Division level	9-6
FSCC-DFST-4020	YES	Conduct deliberate (D3A/Joint) targeting at the Division level	9-7
FSCC-RFST-4000	YES	Establish a regimental fire support coordination center	9-8
FSCC-RFST-4005	YES	Conduct fire support planning at the infantry Regimental level	9-9
FSCC-RFST-4010	YES	Conduct fire support coordination at the infantry Regimental level	9-10
FSCC-RFST-4015	YES	Conduct fire support execution at the infantry Regimental level	9-12
FSCC-RFST-4020	YES	Conduct (D3A) targeting at the infantry Regimental level	9-12
FSCC-BFST-4000	YES	Establish a battalion fire support coordination center	9-13
FSCC-BFST-4005	YES	Conduct fire support planning at the infantry Battalion level	9-14

FSCC-BFST-4010	YES	Conduct fire support coordination at the infantry Battalion level	9-15
FSCC-BFST-4015	YES	Conduct fire support execution at the infantry Battalion level	9-16
FSCC-BFST-4020	YES	Conduct Deliberate (D3A) targeting at the infantry Battalion level	9-17
FSCC-CFST-4000	YES	Establish a fire support coordination capability within the company level operations center	9-18
FSCC-CFST-4005	YES	Conduct fire support planning at Company level	9-19
FSCC-CFST-4010	YES	Conduct fire support coordination at Company level	9-20
FSCC-CFST-4015	YES	Conduct fire support execution at Company level	9-21
FSCC-CFST-4020	YES	Conduct D3A targeting at the Company level	9-22

9003. 4000-LEVEL COLLECTIVE EVENTS

FSCC-DFST-4000: Establish a division fire support coordination center

SUPPORTED MET (S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: An area within the COC is designated for the FST to conduct fire support planning, coordination and execution in support of the concept of operations/scheme of maneuver. The FSCC is established when the capability to coordinate all fire support is achieved.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a GCE HQ operating within a Joint/Combined/Interagency environment across the Range of Military Operations (ROMO).

STANDARD: To plan, coordinate and execute fires in support of the mission and commander's intent during 24 hour operation utilizing fires C2 systems programs of record and collaborative tool.

EVENT COMPONENTS:

1. Establish communication with section, agencies and command to facilitate planning, coordination and execution of fires.
2. Establish required actions and reports with higher, adjacent and supporting units.
3. Establish fires internal battle rhythm within the overall battle rhythm.
4. Identify and occupy physical space with personnel and equipment available.
5. Identify systems and systems architecture requirements.
6. Load, initialize and activate appropriate communication and C2 systems.

CHAINED EVENTS:

0861-FSC2-2000	0861-FSCC-2000	0861-FSCC-2025
0861-FSCC-2030	0861-FSC2-2005	0861-FSC2-2025
0861-FSC2-2050	0861-FSC2-2015	0861-FSC2-2010

0861-FSC2-2020 0861-FSC2-2030 0861-FSC2-2035
0861-FSC2-2040 0861-FSC2-2045

REFERENCES:

1. AFATDS Regt/Bn FDC Job Aids AFATDS Regt/Bn FDC Job Aids
2. CPOF BC 10.x.x CPOF User Guide
3. JADOCs version BC 10.x.x Joint Automated Deep Operations Coordination System USMC Job Aids
4. JTCW Users Manual
5. MCRP 3-16E Fire Support Systems for MAGTF Operations
6. MCWP 3-16 Fire Support Coordination in the Ground Combat Element

FSCC-DFST-4005: Conduct fire support planning at the Division level

SUPPORTED MET(S): None

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: The Division Fire Support Section supports the development of the Fire Support Plan to effectively integrate kinetic and non-kinetic fires into the commander's CONOPS. This section will assist in the preparations of the Operation Order, Branch and Sequel plans as well as Fragmentary Orders. This section publishes/distributes products produced during planning.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a Division Headquarters operating within a Joint/Combined/Interagency environment across the Range of Military Operations (ROMO).

STANDARD: To support the accomplishment of the mission and commander's intent utilizing appropriate fires C2 and collaborative tools.

EVENT COMPONENTS:

1. Support Course of Action Development step of MCPP or Planning Guidance step of JOPEs.
2. Support Wargame step of MCPP or Staff Estimates step of JOPEs.
3. Support Course of Action Comparison and Decision step of MCPP or Commander's Estimate step of JOPEs.
4. Support Orders Development step of MCPP or CJCS Estimate Review step of JOPEs.
5. Support Transition step of MCPP.
6. Support OPT/JPG daily planning requirements to develop branches, sequels and FRAGOs.
7. Support preparation for OPT/JPG.
8. Support Problem Framing step of MCPP or Mission Analysis step of JOPEs.

CHAINED EVENTS:

FSCC-RFST-4005	0861-TGT-2015	0861-FSC2-2025
0861-FSC2-2035	0861-FSC2-2045	0861-FSC2-2000
0861-FSC2-2005	0861-FSC2-2010	0861-FSC2-2030
0861-FSC2-2040	0861-FSC2-2050	0861-FSCC-2025

0861-TGT-2000

0861-FSCC-2030

0861-FSC2-2015

REFERENCES:

1. JOPES VOL II CJCSI 3110.01 Series JOPES VOL II CJCSI 3110.01 Series
2. MCRP 3-16E Fire Support Systems for MAGTF Operations
3. MCWP 3-43.3 Marine Air-Ground Task Force Fires
4. MCWP 5-1 Marine Corps Planning Process (MCP)
5. MSTP pamphlet 3-0.3 MAGTF Fires Reference Guide
6. MSTP pamphlet 5-0.2 Operational Planning Team Leader's Guide

FSCC-DFST-4010: Conduct fire support coordination at the Division level

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: Fire support coordination is the planning and executing of fires so that targets are adequately covered by a suitable weapon or group of weapons.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a Division Headquarters operating within a Joint/Combined/Interagency environment across the Range of Military Operations (ROMO).

STANDARD: To support the scheme of maneuver/concept of operations achieving effective combined arms effects IAW the commander's intent utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Maintain a record of targets fired on, Battle Damage Assessment (BDA), and targets not engaged.
2. Displace the FSCC by echelon while maintaining continuity of operations and control of fires.
3. Anticipate close air support (CAS) requirements.
4. Integrate Non-lethal effects with the scheme of maneuver.
5. Conduct weaponeering (as required).
6. Coordinate collateral damage estimates (CDE) requirements.
7. Coordinate and integrate subordinate elements fire support plans.
8. Load, initialize and integrate appropriate communication and fires C2 systems/program of record.
9. Establish the FSCC and fire support communications architecture.
10. Assume responsibility for the control of fires within assigned AO.
11. Maintain the fires portion of the common tactical picture (CTP).
12. Disseminate all FSCMs to subordinate, higher and adjacent units.
13. Approve, modify or deny requests for fire support based on desired effects, ROE and commander's guidance.
14. Coordinate and integrate air and surface delivered fires using either formal or informal airspace coordination measures.
15. Conduct cross boundary coordination with adjacent or higher units' Force Fires/Effects Coordination Center (FFCC/FECC).

16. Coordinate the employment of ISR in support of the fire support plan.
17. Manage the flow of information in the Fire Support Coordination Center (FSCC).
18. Conduct tactical target management (develop, dissemination, and tracking/updates).
19. Adjust the schedule of fires based on the advance of maneuver units, changes in priorities (Priorities of Fire and Priority Targets), and any changes to the scheme of maneuver.
20. Respond quickly to high payoff targets and fire support requests.
21. Coordinate the movement of ground based fire support.
22. Maintain status of fire support assets.
23. Maintain the status of remaining air sorties allocated, aircraft on call, and all preplanned air missions.

CHAINED EVENTS:

0861-FSC2-2000	0861-TGT-2015	0861-FSC2-2015
0861-FSC2-2030	0861-FSC2-2035	0861-FSC2-2040
FSCC-RFST-4010	0861-TGT-2010	0861-TGT-2050
0861-FSC2-2045	0861-FSC2-2050	0861-FSCC-2025
0861-TGT-2000	0861-TGT-2035	0861-FSC2-2020
0861-FSC2-2005	0861-FSCC-2030	0861-TGT-2005
0861-FSC2-2010		

REFERENCES:

1. CPOF BC 10.x.x CPOF User Guide
2. JADOCs version BC 10.x.x Joint Automated Deep Operations Coordination System USMC Job Aids
3. JTCW Users Manual
4. MCRP 3-16E Fire Support Systems for MAGTF Operations
5. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
6. TM 11-7025-279-10-1 AFATDS Users Manual

FSCC-DFST-4015: Conduct fire support execution at the Division level

SUPPORTED MET (S): None

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: Fire support execution is a continuous process throughout the operations process.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a Division Headquarters operating within a Joint/Combined/Interagency environment across the Range of Military Operations (ROMO).

STANDARD: To support the scheme of maneuver/concept of operations achieving effective combined arms effects IAW the commander's intent utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Conduct combat assessments.
2. Integrate ISR to identify, and to support engagement.
3. Initiate and monitor the execution of fire plans/scheduled fires.
4. Employ fires support assets against adversary forces, facility or logistics.

CHAINED EVENTS:

0861-FSC2-2000	0861-FSC2-2050	0861-FSC2-2005
0861-FSCC-2025	0861-FSCC-2030	0861-TGT-2005
0861-TGT-2010	0861-TGT-2015	0861-TGT-2035
0861-TGT-2050	FSCC-RFST-4015	0861-FSC2-2010
0861-FSC2-2015	0861-FSC2-2020	0861-FSC2-2030
0861-FSC2-2035	0861-FSC2-2040	0861-FSC2-2045
0861-TGT-2000		

REFERENCES:

1. CPOF BC 10.x.x CPOF User Guide
2. JADOCs version BC 10.x.x Joint Automated Deep Operations Coordination System USMC Job Aids
3. JTCW Users Manual
4. MCRP 3-16E Fire Support Systems for MAGTF Operations
5. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
6. TM 11-7025-279-10-1 AFATDS Users Manual

FSCC-DFST-4020: Conduct deliberate (D3A/Joint) targeting at the Division level

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: Targeting is a continual, decision-making process. Commanders and key personnel (fire support, intelligence, operations and planning) must understand the functions associated with the process, be knowledgeable of the capabilities and limitations of acquisition, target intelligence development, and attack systems, and be able to integrate them. The entire targeting process must be fully integrated into the tactical decision-making process.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a Division Headquarters operating within a Joint/Combined/Interagency environment during amphibious or land operations (in MCO, COIN or Hybrid) in Offensive, Defensive and Retrograde operations.

STANDARD: To produce targeting products that effectively facilitate shaping efforts, set conditions that support the concept of operations and achieve targeting objectives IAW commander's intent utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Review daily MAGTF targeting guidance, objectives and battlespace shaping

- matrix (BSM).
2. Coordinate, and produce target nomination with appropriate division staff section that support the division concept of operations.
 3. Produce/Review/Submit Division air support requirements and recommendations to MAGTF targeting section and Division LNO.
 4. Produce/Review/Submit Division recommendations to Daily Air Ground Reconnaissance (DAGR) (Collections Requirements) to MAGTF targeting section and Division LNO.
 5. Submit Division prioritized Target-Nominations to MAGTF targeting section and Division LNO.
 6. Participate in the MAGTF Target Guidance Working Group to provide Division position on targeting matters.
 7. Submit Division briefing products for MAGTF targeting board.
 8. Participate in Targeting and Collections Board to brief Division targeting products.
 9. Participate in the Reactive Attack Guidance Matrix Working Group and the Synchronization Working Group to provide Division position on targeting matters.
 10. Monitor the execution and assessment of the ATO/deliberate targets.

CHAINED EVENTS:

FSCC-RFST-4020	0861-FSC2-2010	0861-FSC2-2000
0861-FSC2-2005	0861-FSC2-2015	0861-FSC2-2020
0861-TGT-2030	0861-FSC2-2035	0861-FSC2-2040
0861-FSC2-2050	0861-FSC2-2045	0861-TGT-2015
0861-FSC2-2030		

REFERENCES:

1. JADOCs version BC 10.x.x Joint Automated Deep Operations Coordination System USMC Job Aids
2. JP 3-60 Joint Targeting
3. JTT Joint Targeting Toolbox (JTT) User's Manual
4. MCRP 3-16E Fire Support Systems for MAGTF Operations
5. MCWP 3-43.3 Marine Air-Ground Task Force Fires
6. MSTP pamphlet 3-0.3 MAGTF Fires Reference Guide

FSCC-RFST-4000: Establish a regimental fire support coordination center

SUPPORTED MET (S): None

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: An area within the COC is designated for the FST to conduct fire support planning, coordination and execution in support of the concept of operations/scheme of maneuver. The FSCC is established when the capability to coordinate all fire support is achieved.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a GCE HQ operating within a Joint/Combined/Interagency environment across the Range of Military Operations (ROMO).

STANDARD: To plan, coordinate and execute fires in support of the mission and commander's intent during 24 hour operation utilizing fires C2 systems programs of record and collaborative tool.

EVENT COMPONENTS:

1. Establish communication with section, agencies and command to facilitate planning, coordination and execution of fires.
2. Establish required actions and reports with higher, adjacent and supporting units.
3. Establish fires internal battle rhythm within the overall battle rhythm.
4. Identify and occupy physical space with personnel and equipment available.
5. Identify systems and systems architecture requirements.
6. Load, initialize and activate appropriate communication and C2 systems.

CHAINED EVENTS:

0861-FSCC-2020	0861-FSC2-2000	0861-FSCC-2000
0861-FSCC-2030	0861-FSC2-2005	0861-FSC2-2025
0861-FSC2-2045	0861-FSC2-2015	0861-FSC2-2010
0861-FSC2-2020	0861-FSC2-2030	0861-FSC2-2035
0861-FSC2-2040	0861-FSC2-2050	

REFERENCES:

1. AFATDS Regt/Bn FDC Job Aids AFATDS Regt/Bn FDC Job Aids
2. CPOF BC 10.x.x CPOF User Guide
3. JADOCs version BC 10.x.x Joint Automated Deep Operations Coordination System USMC Job Aids
4. JTCW Users Manual
5. MCRP 3-16E Fire Support Systems for MAGTF Operations
6. MCWP 3-16 Fire Support Coordination in the Ground Combat Element

FSCC-RFST-4005: Conduct fire support planning at the infantry Regimental level

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: The Regimental Fire Support Section supports the development of the Fire Support Plan to effectively integrate kinetic and non-kinetic fires into the commander's CONOPS. This section will assist in the preparations of the Operation Order, Branch and Sequel plans as well as Fragmentary Orders. This section publishes/distributes products produced during planning.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a Regimental Headquarters operating within a Joint/Combined/Interagency environment during amphibious or land operations (in MCO, COIN or Hybrid) in Offensive, Defensive and Retrograde operations.

STANDARD: To support the accomplishment of the mission and commanders intent

utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Support preparation for OPT/JPG.
2. Support Problem Framing step of MCPP.
3. Support Course of Action Development step of MCPP.
4. Support Wargame step of MCPP.
5. Support Orders Development step of MCPP.
6. Support Transition step of MCPP.
7. Support OPT/JPG daily planning requirements to develop branches and FRAGOs.

CHAINED EVENTS:

0861-FSCC-2025	0861-TGT-2000	0861-TGT-2015
FSCC-BFST-4005	0861-FSCC-2030	0861-PLAN-2030
0861-PLAN-2005	0861-PLAN-2010	0861-PLAN-2015
0861-PLAN-2020	0861-PLAN-2025	0861-PLAN-2000

REFERENCES:

1. MCRP 3-16E Fire Support Systems for MAGTF Operations
2. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
3. MCWP 3-43.3 Marine Air-Ground Task Force Fires
4. MCWP 5-1 Marine Corps Planning Process (MCPP)
5. MSTP pamphlet 3-0.3 MAGTF Fires Reference Guide
6. MSTP pamphlet 5-0.2 Operational Planning Team Leader's Guide

FSCC-RFST-4010: Conduct fire support coordination at the infantry Regimental level

SUPPORTED MET(S): None

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: Fire support coordination is the planning and executing of fires so that targets are adequately covered by a suitable weapon or group of weapons.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a Regimental Headquarters operating within a Joint/Combined/Interagency environment during amphibious or land operations (in MCO, COIN or Hybrid) in Offensive, Defensive and Retrograde operations.

STANDARD: To support the scheme of maneuver/concept of operations achieving effective combined arms effects IAW the commander's intent utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Conduct cross boundary coordination with adjacent or higher units' Fire Support Coordination Center (FSCC).
2. Coordinate the employment of ISR in support of the fire support plan.
3. Manage the flow of information in the Fire Support Coordination Center

- (FSCC).
4. Conduct tactical target management (develop, dissemination, and tracking/updates).
 5. Adjust the schedule of fires based on the advance of maneuver units, changes in priorities (Priorities of Fire and Priority Targets), and any changes to the scheme of maneuver.
 6. Respond quickly to high payoff targets and fire support requests.
 7. Coordinate the movement of ground based fire support.
 8. Maintain status of fire support assets.
 9. Maintain the status of remaining air sorties allocated, aircraft on call, and all preplanned air missions.
 10. Maintain a record of targets fired on, Battle Damage Assessment (BDA), and targets not engaged.
 11. Displace the FSCC by echelon while maintaining continuity of operations and control of fires.
 12. Anticipate close air support (CAS) requirements.
 13. Integrate Non-lethal effects with the scheme of maneuver.
 14. Conduct weaponeering.
 15. Request collateral damage estimates (CDE).
 16. Plan and coordinate observation plan.
 17. Coordinate and integrate subordinate elements fire support plans.
 18. Load, initialize and integrate appropriate communication and fires C2 systems/program of record.
 19. Establish the FSCC and fire support communications architecture.
 20. Establish the FSCC and fire support communications architecture.
 21. Assume responsibility for the control of fires within assigned AO.
 22. Maintain the fires portion of the common tactical picture (CTP).
 23. Disseminate all FSCMs to subordinate, higher and adjacent units.
 24. Approve, modify or deny requests for fire support based on desired effects, ROE and commander's guidance.
 25. Coordinate and integrate air and surface delivered fires using either formal or informal airspace coordination measures.

CHAINED EVENTS:

0861-FSC2-2000	0861-TGT-2050	0861-FSC2-2010
0861-FSC2-2015	0861-FSC2-2020	0861-FSC2-2030
0861-FSC2-2035	0861-FSC2-2045	0861-FSC2-2020
0861-FSC2-2030	0861-TGT-2015	0861-TGT-2035
FSCC-BFST-4010	0861-FSC2-2040	0861-TGT-2000
0861-TGT-2030	0861-FSC2-2005	

REFERENCES:

1. CPOF BC 10.x.x CPOF User Guide
2. JTCW Users Manual
3. MCRP 3-16E Fire Support Systems for MAGTF Operations
4. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
5. TM 11-7025-279-10-1 AFATDS Users Manual

FSCC-REFST-4015: Conduct fire support execution at the infantry Regimental level

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: Fire support execution is a continuous process throughout the operations process.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of the Infantry Regimental Headquarters operating within a Joint/Combined/Interagency environment during amphibious or land operations (in MCO, COIN or Hybrid) in Offensive, Defensive and Retrograde operations.

STANDARD: To support the scheme of maneuver/concept of operations achieving effective combined arms effects IAW the commander's intent utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Integrate ISR to identify, and to support engagement.
2. Initiate and monitor the execution of fire plans/scheduled fires.
3. Employ fires support assets, against adversary forces, facility or logistics.
4. Conduct combat assessments.

CHAINED EVENTS:

0861-FSC2-2005	0861-TGT-2015	FSCC-BFST-4015
0861-FSC2-2020	0861-FSC2-2030	0861-FSC2-2035
0861-FSC2-2040	0861-FSC2-2045	0861-FSCC-2030
0861-TGT-2050	0861-FSC2-2000	0861-FSC2-2015
0861-TGT-2035	0861-FSCC-2020	0861-TGT-2000
0861-TGT-2030	0861-FSC2-2010	

REFERENCES:

1. CPOF BC 10.x.x CPOF User Guide
2. JADOCs version BC 10.x.x Joint Automated Deep Operations Coordination System USMC Job Aids
3. JTCW Users Manual
4. MCRP 3-16E Fire Support Systems for MAGTF Operations
5. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
6. TM 11-7025-279-10-1 AFATDS Users Manual

FSCC-RFST-4020: Conduct (D3A) targeting at the infantry Regimental level

SUPPORTED MET (S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: The methodical identification, compilation, and analysis of potential targets followed by the decision of which potential targets will be attacked, when, and/or by what weapon and ordnance.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a Company Headquarters operating within a

Joint/Combined/Interagency environment during amphibious or land operations (in MCO, COIN or Hybrid) in Offensive, Defensive and Retrograde operations.

STANDARD: In order to process, select and prioritize targets and match the appropriate response in support of the scheme of maneuver to achieve the commander's intent utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Conduct lethal and non-lethal based targeting.
2. Determine desired effects.
3. Conduct target development, validation, nomination, and prioritization.
4. Identify planned targets (scheduled and on-call targets).
5. Conduct target value analysis.
6. Identify high value targets (HVT) and create High value target list (HVTL).
7. Identify high payoff targets and create high payoff target list.
8. Conduct Capabilities Analysis.
9. Conduct weaponeering.
10. Develop Attack Guidance Matrix (AGM).
11. Identify Target Selection Standards (TSS).
12. Identify Requirements for Battle Damage Assessment (BDA).
13. Support the development of target synchronization matrix.
14. Execute Attack Guidance on Targets In Support of the Commander's Plan.
15. Assess Battle Damage Assessment (BDA).

CHAINED EVENTS:

0861-FSC2-2030	0861-TGT-2000	0861-FSC2-2000
0861-FSC2-2010	0861-FSC2-2035	0861-FSC2-2030
0861-TGT-2015	0861-TGT-2030	0861-TGT-2035
0861-FSC2-2005	0861-FSC2-2015	0861-FSC2-2020
0861-FSC2-2040	0861-FSC2-2045	0861-FSC2-2020
FSCC-BFST-4020		

REFERENCES:

1. CPOF BC 10.x.x CPOF User Guide
2. JADOCs version BC 10.x.x Joint Automated Deep Operations Coordination System USMC Job Aids
3. JTCW Users Manual
4. MCRP 3-16E Fire Support Systems for MAGTF Operations
5. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
6. TM 11-7025-279-10-1 AFATDS Users Manual

FSCC-BFST-4000: Establish a battalion fire support coordination center

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: An area within the COC is designated for the FST to conduct fire support planning, coordination and execution in support of the concept of operations/scheme of maneuver. The FSCC is established when the capability to coordinate all fire support is achieved.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a GCE HQ operating within a Joint/Combined/Interagency environment across the Range of Military Operations (ROMO).

STANDARD: To plan, coordinate and execute fires in support of the mission and commander's intent during 24 hour operation utilizing fires C2 systems programs of record and collaborative tool.

EVENT COMPONENTS:

1. Establish communication with section, agencies and command to facilitate planning, coordination and execution of fires.
2. Establish required actions and reports with higher, adjacent and supporting units.
3. Establish fires internal battle rhythm within the overall battle rhythm.
4. Identify and occupy physical space with personnel and equipment available.
5. Identify systems and systems architecture requirements.
6. Load, initialize and activate appropriate communication and C2 systems.

CHAINED EVENTS:

0802-FSC-2000	0861-FSC2-2000	0861-FSCC-2015
0861-FSCC-2000	0861-FSCC-2030	0861-FSC2-2005
0861-FSC2-2025	0861-FSC2-2045	0861-FSC2-2015
0861-FSC2-2010	0861-FSC2-2020	0861-FSC2-2030
0861-FSC2-2035	0861-FSC2-2040	0861-FSC2-2050
0802-FSC-2001		

REFERENCES:

1. AFATDS Regt/Bn FDC Job Aids AFATDS Regt/Bn FDC Job Aids
2. CPOF BC 10.x.x CPOF User Guide
3. JADOCs version BC 10.x.x Joint Automated Deep Operations Coordination System USMC Job Aids
4. JTCW Users Manual
5. MCRP 3-16E Fire Support Systems for MAGTF Operations
6. MCWP 3-16 Fire Support Coordination in the Ground Combat Element

FSCC-BFST-4005: Conduct fire support planning at the infantry Battalion level

SUPPORTED MET (S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: The Battalion Fire Support team supports the development of the Fire Support Plan to effectively integrate kinetic and non-kinetic fires into the commander's CONOPS.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a Battalion Headquarters operating within a Joint/Combined/Interagency environment during amphibious or land operations (in MCO, COIN or Hybrid) in Offensive, Defensive and Retrograde operations.

STANDARD: To support the scheme of maneuver utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Support preparation for OPT.
2. Support Problem Framing step of MCPP.
3. Support Course of Action Development step of MCPP.
4. Support Wargame step of MCPP.
5. Support Course of Action Comparison and Decision step of MCPP.
6. Support Orders Development step of MCPP.
7. Support Transition step of MCPP.
8. Support daily planning requirements to develop FRAGOs.

CHAINED EVENTS:

0861-FSCC-2015	0861-TGT-2035	0861-FSC2-2000
0861-FSC2-2005	0861-FSC2-2015	0861-FSCC-2030
0861-PLAN-2005	0861-PLAN-2010	0861-PLAN-2015
0861-PLAN-2020	0861-PLAN-2030	0861-TGT-2015
0861-TGT-2030	0861-FSC2-2040	0861-FSC2-2010
0861-FSC2-2020	0861-FSC2-2025	0861-FSC2-2030
0861-FSC2-2035	0861-PLAN-2000	0861-PLAN-2025
0861-TGT-2000	0861-TGT-2020	FSCC-CFST-4005

REFERENCES:

1. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
-

FSCC-BFST-4010: Conduct fire support coordination at the infantry Battalion level

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: Fire support coordination is the planning and executing of fires so that targets are adequately covered by a suitable weapon or group of weapons.

CONDITION: Given an Operation order and higher fire support plan integrate lethal and non-lethal fires into the tactical operation across the Range of Military Operations (ROMO).

STANDARD: To support the scheme of maneuver/concept of operations achieving effective combined arms effects IAW the commander's intent utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Load, initialize and integrate appropriate communication and fires C2 systems/program of record.
2. Establish the FSCC and fire support communications architecture.
3. Assume responsibility for the control of fires within assigned AO.
4. Maintain the fires portion of the common tactical picture (CTP).
5. Disseminate all FSCMs to subordinate, higher and adjacent units.

6. Approve, modify or deny requests for fire support based on desired effects, ROE and commander's guidance.
7. Integrate air and surface delivered fires using either formal or informal airspace coordination measures.
8. Conduct cross boundary coordination with adjacent or higher units' Fire Support Coordination Center (FSCC).
9. Employ ISR in support of the fire support plan.
10. Manage the flow of information in the Fire Support Coordination Center (FSCC).
11. Conduct tactical target management (develop, dissemination, and tracking/updates).
12. Adjust the schedule of fires based on the advance of maneuver units, changes in priorities (Priorities of Fire and Priority Targets), and any changes to the scheme of maneuver.
13. Respond quickly to high payoff targets and immediate fire support requests.
14. Coordinate the movement of ground based fire support.
15. Maintain status of fire support assets.
16. Maintain the status of remaining air sorties allocated, aircraft on call, and all replanned air missions.
17. Maintain a record of targets fired on, Battle Damage Assessment (BDA), and targets not engaged.
18. Displace the FSCC by echelon while maintaining continuity of operations and control of fires.
19. Anticipate close air support (CAS) requirements.
20. Integrate Non-lethal effects with the scheme of maneuver.
21. Integrate subordinate elements fire support plans.
22. Plan and coordinate observation plan.

CHAINED EVENTS:

0861-FSC2-2000	0861-FSC2-2010	0861-FSC2-2020
0861-TGT-2020	0861-TGT-2025	FSCC-CFST-4010
0861-FSC2-2015	0861-FSC2-2025	0861-FSCC-2015
0861-FSCC-2030	0861-FSC2-2005	

REFERENCES:

1. CPOF BC 10.x.x CPOF User Guide
2. JTCW Users Manual
3. MCRP 3-16E Fire Support Systems for MAGTF Operations
4. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
5. TM 11-7025-279-10-1 AFATDS Users Manual

FSCC-BFST-4015: Conduct fire support execution at the infantry Battalion level

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a Infantry Battalion Headquarters operating within a Joint/Combined/Interagency environment across the Range of Military Operations (ROMO).

STANDARD: To support the scheme of maneuver while achieving effective combined arms utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Integrate ISR to identify, and to support engagement.
2. Initiate and monitor the execution of fire plans/scheduled fires.
3. Employ fires support assets against adversary forces, facility or logistics.
4. Conduct BDA.

CHAINED EVENTS:

0861-TGT-2020	0861-TGT-2015	0861-TGT-2035
0861-FSC2-2040	0861-FSCC-2015	0861-FSCC-2030
0861-TGT-2000	0861-FSC2-2000	0861-FSC2-2005
0861-FSC2-2010	0861-FSC2-2020	0861-FSC2-2030
0861-FSC2-2015	0861-FSC2-2025	0861-FSC2-2035
0861-TGT-2030		

REFERENCES:

1. CPOF BC 10.x.x CPOF User Guide
2. JTCW JTCW Users Manual
3. MCRP 3-16E Fire Support Systems for MAGTF Operations
4. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
5. TM 11-7025-279-10-1 AFATDS Users Manual

FSCC-BFST-4020: Conduct Deliberate (D3A) targeting at the infantry Battalion level

SUPPORTED MET (S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: The methodical identification, compilation, and analysis of potential targets followed by the decision of which potential targets will be attacked, when, and/or by what weapon and ordnance.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a Infantry Battalion Headquarters operating within a Joint/Combined/Interagency environment across the Range of Military Operations (ROMO).

STANDARD: To support the scheme of maneuver while achieving the commander's intent utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Assess Battle Damage Assessment (BDA).
2. Execute Attack Guidance on Targets In Support of the Commander's Plan.
3. Conduct lethal and non-lethal based targeting.
4. Determine desired effects.
5. Conduct target development, validation, nomination, and prioritization.
6. Identify planned targets (scheduled and on-call targets).

7. Conduct target value analysis.
8. Identify high value targets (HVT) and create High value target list (HVTL).
9. Identify high payoff targets and create high payoff target list (HPTL).
10. Develop target precedence list.
11. Conduct weaponeering.
12. Identify Target Selection Standards (TSS).
13. Identify Requirements for Battle Damage Assessment (BDA).
14. Support the development of target synchronization matrix.

CHAINED EVENTS:

0861-FSC2-2000	FSCC-CFST-4020	0861-FSC2-2020
0861-FSC2-2030	0861-FSC2-2035	0861-FSC2-2040
0861-TGT-2000	0861-TGT-2020	0861-TGT-2030
0861-FSC2-2010	0861-FSC2-2015	0861-FSC2-2025
0861-FSCC-2015	0861-FSCC-2030	0861-TGT-2015
0861-TGT-2035	0861-FSC2-2005	

REFERENCES:

1. CPOF BC 10.x.x CPOF User Guide
2. JTCW Users Manual
3. MCRP 3-16E Fire Support Systems for MAGTF Operations
4. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
5. TM 11-7025-279-10-1 AFATDS Users Manual

FSCC-CFST-4000: Establish a fire support coordination capability within the company level operations center

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: An area within the COC is designated for the FST to conduct fire support planning, coordination and execution in support of the concept of operations/scheme of maneuver. The FSCC is established when the capability to coordinate all fire support is achieved.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a GCE HQ operating within a Joint/Combined/Interagency environment across the Range of Military Operations (ROMO).

STANDARD: To plan, coordinate and execute fires in support of the mission and commander's intent during 24 hour operation utilizing fires C2 systems programs of record and collaborative tool.

EVENT COMPONENTS:

1. Establish communication with section, agencies and command to facilitate planning, coordination and execution of fires.
2. Establish required actions and reports with higher, adjacent and supporting units.
3. Establish fires internal battle rhythm within the overall battle rhythm.
4. Identify and occupy physical space with personnel and equipment available.

5. Identify systems and systems architecture requirements.
6. Load, initialize and activate appropriate communication and C2 systems.

CHAINED EVENTS:

0802-FSC-2000	0861-FSCC-2010	0861-FSCC-2000
0861-FSC2-2005	0861-FSC2-2025	0861-FSC2-2045
0861-FSC2-2015	0861-FSC2-2010	0861-FSC2-2020
0861-FSC2-2030	0861-FSC2-2035	0861-FSC2-2040
0861-FSC2-2050	0802-FSC-2001	0861-FSC2-2000

REFERENCES:

1. AFATDS Regt/Bn FDC Job Aids AFATDS Regt/Bn FDC Job Aids
2. CPOF BC 10.x.x CPOF User Guide
3. JADOCs version BC 10.x.x Joint Automated Deep Operations Coordination System USMC Job Aids
4. JTCW Users Manual
5. MCRP 3-16E Fire Support Systems for MAGTF Operations
6. MCWP 3-16 Fire Support Coordination in the Ground Combat Element

FSCC-CFST-4005: Conduct fire support planning at Company level

SUPPORTED MET (S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: The Company Fire Support team members' supports the development of the Fire Support Plan to effectively integrate kinetic and non-kinetic fires into the commander's CONOPS. The Company Fire Support team members' assists the Fire Support Team Leader in the performance of his duties. Planning at the company level may use the troop leading steps commonly referred to as BAMCIS. Actions may be done in any sequence or simultaneously. The company fire support officer must organize the efforts of his assets to meet all these requirements in a time-constrained environment.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of an Infantry Company operating within a Joint/Combined/Interagency environment across the Range of Military Operations (ROMO).

STANDARD: To integrate effective fires to support the scheme of maneuver utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Identify required fires C2 and additional equipment in support of the company concept of operations.
2. Understand the company scheme of maneuver.
3. Determine assets available.
4. Identify targets in support of the scheme of maneuver.
5. Submit list of targets and FSCMs.

6. Plan the integration of air and surface fires assets to support the engagement of targets.

CHAINED EVENTS:

0861-FSC2-2000	0861-PLAN-2010	0861-PLAN-2000
0861-PLAN-2015	0861-PLAN-2020	0861-PLAN-2025
0861-PLAN-2030	0861-TGT-2020	0861-TGT-2025
0861-FSC2-2005	0861-FSC2-2010	0861-FSC2-2015
0861-FSC2-2020	0861-FSC2-2015	0861-FSC2-2030
0861-PLAN-2005	0861-FSC2-2025	

REFERENCES:

1. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
2. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

FSCC-CFST-4010: Conduct fire support coordination at Company level

SUPPORTED MET (S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: Fire support coordination is the planning and executing of fires so that targets are adequately covered by a suitable weapon or group of weapons.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of an Infantry Company operating within a Joint/Combined/Interagency environment across the Range of Military Operations (ROMO).

STANDARD: To support of the scheme of maneuver achieving effective combined arms utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Establish digital and voice communication systems of record and networks required to integrate aviation and surface fires in support of company operations.
2. Assume responsibility for the control of fires within assigned AO.
3. Maintain the fires portion of the common tactical picture (CTP).
4. Disseminate all FSCMs to subordinate observer.
5. Approve, modify or deny requests for fire support based on desired effects, ROE and commander's guidance.
6. Integrate air and surface delivered fires using either formal or informal airspace coordination measures.
7. Conduct cross boundary coordination with adjacent or the battalion Fire Support Coordination Center (FSCC).
8. Employ ISR in support of the fire support plan.
9. Manage the flow of information in the CFST.
10. Adjust the schedule of fires based on the advance of maneuver units, changes in priorities (Priorities of Fire and Priority Targets), and any changes to the scheme of maneuver.

11. Respond quickly to high payoff targets and immediate fire support requests.
12. Maintain status of fire support assets.
13. Maintain a record of targets fired on, Battle Damage Assessment (BDA), and targets not engaged.
14. Displace the CFST by echelon while maintaining continuity of operations and control of fires.
15. Anticipate close air support (CAS) requirements.
16. Conduct weaponeering.
17. Integrate subordinate elements fire support plans.
18. Integrate company assets into the observation plan.

CHAINED EVENTS:

0861-FSC2-2000	0861-FSC2-2010	0861-FSC2-2015
0861-FSC2-2020	0861-FSC2-2005	0861-TGT-2025
0861-FSC2-2025	0861-FSCC-2015	0861-FSCC-2030
0861-TGT-2020		

REFERENCES:

1. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
2. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

FSCC-CFST-4015: Conduct fire support execution at Company level

SUPPORTED MET(S): None

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a Infantry Company operating within a Joint/Combined/Interagency environment across the Range of Military Operations (ROMO).

STANDARD: To achieve a combined arms effect utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Utilize fires C2 and additional equipment in support of the company scheme of maneuver.
2. Integrate available fire support assets in support of the fire support plan.
3. Engage targets in support of the scheme of maneuver.
4. Execute fire plans/scheduled fires.

CHAINED EVENTS:

0861-OBS-1040	0861-OBS-1110	0861-OBS-1050
0861-OBS-1055	0861-OBS-1060	0861-OBS-1095
0861-OBS-2040	0861-OBS-2045	0861-NSFS-1035
0861-NSFS-1040	0861-OBS-1105	0861-NSFS-1000
0861-NSFS-1010	0861-NSFS-1020	0861-NSFS-1025
0861-NSFS-1030	0861-OBS-2000	0861-OBS-2005

0861-OBS-2010	0861-OBS-2015	0861-OBS-2030
0861-OBS-2035	0861-NSFS-1005	0861-NSFS-1015
0861-OBS-1000	0861-OBS-1005	0861-OBS-1010
0861-OBS-1015	0861-OBS-1020	0861-OBS-1030
0861-OBS-1035	0861-OBS-1065	0861-OBS-1070
0861-OBS-1075	0861-OBS-1080	0861-OBS-1085
0861-OBS-2020	0861-OBS-2025	0861-OBS-1025
0861-OBS-1090	0861-OBS-1105	0861-OBS-1045

REFERENCES:

1. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
2. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

FSCC-CFST-4020: Conduct D3A targeting at the Company level

SUPPORTED MET (S): None

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: The methodical identification, compilation, and analysis of potential targets followed by the decision of which potential targets will be attacked, when, and/or by what weapon and ordnance.

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems as a member of a Infantry Company operating within a Joint/Combined/Interagency environment across the Range of Military Operations (ROMO).

STANDARD: To match the appropriate response in support of the scheme of maneuver to achieve the commander's intent utilizing appropriate fire C2 programs of record.

EVENT COMPONENTS:

1. Develop Commander's Fires objectives.
2. Determine desired effects.
3. Identify targets for quick fire plans.
4. Conduct weaponeering.
5. Identify Requirements for Battle Damage Assessment (BDA).
6. Execute Attack Guidance on Targets In Support of the Commander's Plan.
7. Assess Battle Damage Assessment (BDA) (phase I only).

CHAINED EVENTS:

0861-FSC2-2000	0861-FSCC-2015	0861-TGT-2020
0861-TGT-2025	0861-FSCC-2030	0861-FSC2-2025
0861-FSC2-2010	0861-FSC2-2015	0861-FSC2-2020
0861-FSC2-2005		

REFERENCES:

1. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
2. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

NAVMC 3500.7A
6 Nov 2012
