

ARTILLERY T&R MANUAL

CHAPTER 10

MOS 0802 INDIVIDUAL EVENTS

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ARTILLERY T&R MANUAL

CHAPTER 10

0802 MOS INDIVIDUAL EVENTS

10000. PURPOSE. This chapter details the individual events that pertain to the community. These events are linked to a service-level Mission Essential Tasks (MET). This linkage tailors individual training for the selected MET. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

10001. 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 or military occupational field (0802). The second four digits represent the functional or duty area. The last four digits represent the level, and identifier number of the event. Every individual event has an identifier number from 000 to 999.

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10003. 1000-LEVEL EVENTS

0802-BTRY-1000: Lay a cannon battery using the optical firing control method

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

MOS PERFORMING: 0802

BILLETS: Btry AXO, Btry CO, Btry XO, Plt Cmdr

GRADES: 2NDLT, 1STLT, CAPT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical scenario involving the absence of the DFCS, supplied with an M2A2 aiming circle with survey-capable Centaurs, an M2 compass, and a battery T/O of M777's/EFSS.

STANDARD: Within 0 mils of lay circle, and +/- 2 mils of safety circle.

PERFORMANCE STEPS:

1. Declinate the M-2 Compass/M2A2 Aiming Circle.
2. Set-Up and recover the M2A2 Aiming Circle.
3. Conduct Hasty Survey.
4. Measure the Orienting Angle.
5. Measure the azimuth of the Line of Fire.
6. Lay the Firing Battery.

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
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 17410 Maneuver/Training Area, Light Forces

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

Perform non-digital lay of a cannon battery using the following methods:

1. Lay by Orienting Angle Method.
 2. Lay by Grid Azimuth Method.
 3. Lay by M2 Compass Method.
 4. Lay by Aiming Point-Deflection Method.
 5. Lay by Howitzer Back-Lay Method.
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0802-BTRY-1001: Conduct a tactical road march

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0802

BILLETS: Btry AXO, Btry CO, Btry XO, Fire Direction Officer, Plt Cmdr

GRADES: 2NDLT, 1STLT, CAPT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a unit with movement orders and a tactical situation.

STANDARD: Demonstrate open and close column movement, tactical infiltration, and terrain marches.

PERFORMANCE STEPS:

1. Ensure the type of displacement, methods of movement, march column interval, and march column configuration maximizes passive and active defense measures.
2. Cross the start point on time.
3. Maintain march discipline.
4. Submit reports to higher headquarters when crossing start point, checkpoints, and release point.
5. Maintain proper convoy interval.
6. Execute appropriate immediate action drill when convoy comes under attack by air, ground, or indirect fire.
7. Organize march column so that dispersion of available automatic weapons provides for delivery of a heavy volume of fire against ground/air attacks in all directions.
8. Maintain security while on the march with any available automatic weapons being mounted and assigned a sector of fire.
9. Prepare vehicles appropriately for convoy defense with time and assets available.
10. Establish procedures for the convoy during a halt.
11. Plan for alternate firing position(s) en route.

REFERENCES:

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

CONDITION: Given a scenario involving inaccurate fires, known data, a firing chart and fire control information (manual or automated), records of fire, and gun procedures.

STANDARD: To account for five requirements for accurate predicted fires.

PERFORMANCE STEPS:

1. Evaluate accuracy of fires.
2. Determine that inaccuracies exist.
3. Determine direction and magnitude of the error.
4. Evaluate fire control data.
5. Evaluate and decide upon corrective action for errors in position area location and direction which are firing unit specific.
6. Evaluate and decide on corrective action for errors in target area location and direction.
7. Evaluate and decide on corrective action for errors in weapons and ammunition that are fire unit/gun specific.
8. Evaluate and decide on corrective action for errors in MET information.
9. Evaluate and decide on corrective action for errors in computation/Fire Direction Center (FDC) procedures which are fire unit/gun specific.
10. Evaluate and decide on corrective action for errors in gun procedures.
11. Evaluate and decide on corrective action for errors in observer procedures.
12. Evaluate and decide on corrective action for errors between firing elements.
13. Direct the appropriate corrective action to be taken.

REFERENCES:

1. Job Aid Current automated system job aides
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
3. MCWP 3-16.4 Tactics, Techniques and Procedures for the Field Artillery Manual Cannon Gunnery
4. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17430 Impact Area Dudded
Facility Code 17410 Maneuver/Training Area, Light Forces
Facility Code 17671 Field Artillery Indirect Fire Range

0802-BTRY-1004: Supervise the firing of a gunline

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

MOS PERFORMING: 0802

BILLETS: Btry AXO, Btry CO, Btry XO, Plt Cmdr

GRADES: 2NDLT, 1STLT, CAPT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a battery.

STANDARD: Verifying accomplishment of the TLABSPAP steps.

PERFORMANCE STEPS:

1. Ensure all personnel have the appropriate safety certification.
2. Ensure Aiming circles are properly declinated by safety certified personnel.
3. Supervise ammunition management on the gun line.
4. Determine whether a weapon system is safe to fire.
5. Ensure adherence to safety regulations in the JRSSOP.
6. Verify the Weapon Records Book, Part II Data (NAVMC 10558A).
7. Compute XOs MIN QE.
8. Prepare XOs report.

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

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17410 Maneuver/Training Area, Light Forces
Facility Code 17430 Impact Area Dudded

0802-BTRY-1006: Conduct the reconnaissance, selection, and occupation of position (RSOP)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0802

BILLETS: Btry AXO, Btry CO, Btry XO, Plt Cmdr

GRADES: 2NDLT, 1STLT, CAPT, MAJ

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an advance party.

STANDARD: Ensuring position is prepared for the arrival of the main body.

PERFORMANCE STEPS:

1. Determine the method of reconnaissance.
2. Plan for the reconnaissance.

3. Assemble Reconnaissance and Advance Party.
4. Perform reconnaissance, using appropriate method(s).
5. Select position(s).
6. Conduct security sweep.
7. Occupy position(s) with the advance party.
8. Organize and Prepare position(s) for main body occupation.

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
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

0802-BTRY-1007: Supervise a displacement

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

MOS PERFORMING: 0802

BILLETS: Btry AXO, Btry CO, Btry XO, Fire Direction Officer

GRADES: 2NDLT, 1STLT, CAPT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an emplaced unit, and a movement order.

STANDARD: In accordance with the movement order.

PERFORMANCE STEPS:

1. Prepare for displacing a unit.
2. Organize and dispatch the advance party.
3. Issue the command, "PREPARE TO MARCH ORDER."
4. Develop the method of march (open column, close column, infiltration, or terrain march).
5. Plan for march column contingencies during displacement.
6. Supervise sections displacement actions.
7. Issue the movement order.
8. Displace in accordance with the movement order.

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
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:

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

0802-BTRY-1008: Conduct maintenance management

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

MOS PERFORMING: 0802

BILLETS: Btry AXO, Btry CO, Btry XO

GRADES: 2NDLT, 1STLT, CAPT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given maintenance management directives, GCCS-MC output reports and service requests, current unit T/O&E, publications listings (PL), and the references.

STANDARD: To ensure the combat effectiveness supports the mission.

PERFORMANCE STEPS:

1. Ensure preventative, scheduled and corrective maintenance is performed at each echelon.
2. Ensure maintenance records are maintained and current.
3. Ensure use of maintenance management forms for the requisition of repair parts.
4. Review and update PL. (Coordinate with the S-1.)
5. Inspect maintenance management program ensuring adherence to applicable directives.
6. Conduct inspections to determine adequacy of maintenance program.
7. Reconcile GCCS-MC output reports and service requests with the MMO.
8. Ensure parts required for equipment maintenance match parts actually on order.
9. Review status of parts on order.

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
 2. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
 3. MCO P4790.2 MIMMS Field Procedures Manual
 4. MCO P5215.17 Marine Corps Technical Publications System
 5. MCO P5600.31 Marine Corps Publication and Printing Regulations
 6. MCWP 3-16.1 Artillery Operations
 7. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
 8. NAVMC 2761 Catalog of Publications
 9. TM 4700-15-1/F Marine Corps Equipment Forms and Records
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0802-FDC-1001: Supervise the preparation of the Fire Direction Center

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0802

BILLETS: AFDO, Fire Direction Officer, S-3A

GRADES: 2NDLT, 1STLT, CAPT, MAJ

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Fire Direction Center (FDC), operations order, situation map, unit Standing Operating Procedures (SOP), commander's guidance, a scenario requiring the FDC to conduct fire missions into an adjacent zone, and the references.

STANDARD: To process fire missions.

PERFORMANCE STEPS:

1. Perform Future Planning and input the MCFSS (TAB G).
2. Plan Data Distribution.
3. Supervise Automated Database Construction.
4. Supervise the creation and implementation of a Communications Configuration.
5. Verify the creation of CENTAURS Database.
6. Verify the entries on the chronograph worksheet for completeness and proper procedures.
7. Supervise the emplacement of the Fire Direction Center.

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
 2. MCWP 3-16.4 Tactics, Techniques and Procedures for the Field Artillery Manual Cannon Gunnery
 3. TB 11-7025-354-10-2 Technical Fire Direction - Paladin/M777A2 Operation for AFATDS
 4. TB 11-7025-355-10 Centaur Version 2.0 Software User's Manual
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0802-FDC-1003: Troubleshoot errors in the firing data solution

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0802

BILLETS: AFDO, Fire Direction Officer, S-3, S-3A

GRADES: 2NDLT, 1STLT, CAPT, MAJ

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical scenario, in a Fire Direction Center, an error in the firing data, and the references.

STANDARD: Ensuring all errors have been corrected.

PERFORMANCE STEPS:

1. Determine magnitude of total error.
2. Isolate the error(s) by determining if the error is gun specific or it affects the entire battery.
3. Isolate the error(s) by determining if the error in deflection, range, or height of burst.
4. Once the error is isolated, ensure that the determined error is of the correct magnitude and correct direction.
5. Ensure there are no other errors.
6. Verify the AFATDS or BUCS database to identify the source of the error.
7. Verify gunline data to identify the source of the error.
8. Determine appropriate corrective actions.
9. Apply appropriate corrections to the firing data solutions.

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. ST 6-50-20 Battery Executive Officer's/ Platoon Leader's Handbook
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0802-FDC-1004: Compute basic safety data

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an operational FDC, XO's report, left and right limits for azimuth/deflection (each dog leg), min and max range (each dog leg).

STANDARD: To provide safe artillery fires IAW current JRegTO P3570.

PERFORMANCE STEPS:

1. Construct SDZ.
2. Construct range safety card.
3. Construct safety diagram.
4. Compute safety data.
5. Verify XOs min QE.
6. Construct safety Ts.
7. Apply safety data to situation map and firing charts.
8. Update safety as required.

REFERENCES:

1. DA PAM 385-63 Department of the Army Range Safety
 2. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
 3. Job Aid Current automated system job aides
 4. Local Range Regulations
 5. MCWP 3-16.4 Tactics, Techniques and Procedures for the Field Artillery Manual Cannon Gunnery
 6. TFT's and Addendums TFT's and Addendums
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0802-FDC-1005: Supervise the maintenance of a tactical situation map

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0802

BILLETS: AFDO, Fire Direction Officer

GRADES: 2NDLT, 1STLT, CAPT, MAJ

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an operational FDC, a map, plotting equipment, a range azimuth fan, operations order, and maneuver graphics in either text or graphic form.

STANDARD: In order to track the most current tactical information.

PERFORMANCE STEPS:

1. Verify the establishment of the situation map.
2. Verify updates to the Situation map.

REFERENCES:

1. MCRP 5-2A/FM 101-5-1 Operational Terms and Graphics
 2. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
 3. MCWP 3-16.1 Artillery Operations
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0802-FDC-1602: Conduct fire direction

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

BILLETS: AFDO, Fire Direction Officer, S-3A

GRADES: 2NDLT, 1STLT, CAPT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Fire Direction Center (FDC), commander's guidance, JMEMS and GMET, and a Call for Fire (CFF).

STANDARD: Achieving first round fire for effect.

PERFORMANCE STEPS:

1. Ensure the five requirements for accurate predicted fire are met.
2. Supervise Automated/Degraded Mission Processing.
3. Supervise Consolidation, Processing, and Updating of Fire Plans.
4. Supervise a secondary means for fire direction.
5. Plot the target to verify that no Fire Support Coordination Measures are violated and to determine the target altitude.
6. Issue the Fire Order.
7. Determine transfer limits.
8. Compute new Graphical Firing Table (GFT) settings.

9. Conduct Muzzle Velocity Management.
10. Supervise ammunition management.
11. Compute all required safety data.
12. Apply the five steps of improve firing data.

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
2. MCIP 3-16.02 Marine Rocket Battery 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. TB 11-7025-354-10-2 Technical Fire Direction - Paladin/M777A2 Operation for AFATDS

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

Five steps of improve firing data:

1. Conduct accurate firing on a point of known location.
2. Determine total corrections between "should hit" and "did hit" data.
3. Quantify meteorological data.
4. Isolate position constants.
5. Update total corrections, as necessary.

0802-FSO-1000: Direct the operations of the Company Fire Support Team (FiST)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Fire Support Team with appropriate equipment, a tactical scenario requiring the equipment of the FiST, commander's guidance, and the references.

STANDARD: In order to support the scheme of maneuver.

PERFORMANCE STEPS:

1. Define the command and control relationship between the Fire Support Team and the supported maneuver commander.
2. Supervise a Fire Support Team in various type maneuver organizations (Infantry Company, Mechanized Infantry Company, Tank Company, LAR Company, etc.).
3. Supervise a Fire Support Team during various types of operations to include dismounted and mounted.
4. Employ organic equipment authorized to Fire Support Teams to include: situation map, OF fan, terrain sketch, visibility diagram, M2 compass,

binoculars, lasers, GPS, digital equipment, and range capability fans of IDF assets.

5. Brief the maneuver commander on capabilities of the Fire Support Team.
6. Supervise the selection and occupation of an OP.
7. Send battlefield reports in accordance with Unit SOP and associated references.
8. Submit list of targets to HHQ.

REFERENCES:

1. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller
2. JRegtO P3570.2 Marine Corps Artillery Fire Support Training Standing Operating Procedures (SOP)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17410 Maneuver/Training Area, Light Forces

0802-FSO-1001: Conduct an adjust fire mission

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the equipment organic to the Fire Support Officer a designated target, and communications with the appropriate agency.

STANDARD: Initiating the call for fire within 60 seconds of target identification, and announce subsequent corrections within 15 seconds of the burst (deviation to the nearest 10 meters, range to the nearest 100 meters, and HOB corrections to the nearest 5 meters). Enter fire for effect (FFE) within +/-50 meters of the target using no more than five adjusting rounds.

PERFORMANCE STEPS:

1. Locate a target utilizing manual methods of target location.
2. Transmit the complete Call for Fire (CFF).
3. Determine and transmit OT direction with or before the first correction, when using the grid method of target location.
4. Transmit subsequent corrections in the proper sequence.
5. Enter Fire For Effect (FFE) of the call for fire.
6. Transmit refinement data (if any), Record as Target (if desired), End of Mission (EOM), and surveillance.

REFERENCES:

1. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA45 Cartridge, 120mm Mortar High Explosi	10 mortars per Marine
D529 Projectile, 155mm High Explosive M79	10 projectiles per Marine
DA12 Charge, Propellant 155mm MACS M231	5 charges per Marine
DA13 Charge, Propellant 155mm MACS M232	5 charges per Marine
N340 Fuze, Point Detonating M739/M739A1	10 fuzes per Marine
N523 Primer, Percussion M82	10 cartridges per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. If the PE in range is greater than or equal to 30 meters, the observer may call FFE when a 200 meter bracket is split.
2. When an observer is equipped with a laser range finder, one-round adjust missions should be standard.
3. This event will be conducted utilizing appropriate fires C2 and manual methods.
4. SIMULATION SUPPORT: This event may also be conducted and/or supplemented by the use of a Category I or II simulation devices and a simulation device operator.

0802-FSO-1002: Adjust fire with the laser range finder

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the equipment organic to the Fire Support Officer, a designated target, and communications with the appropriate agency.

STANDARD: Initiating the call for fire within 60 seconds of target identification, and announce subsequent corrections within 15 seconds of the burst (direction to the nearest 1 mil, distance to the nearest 10 meters, and vertical angle to the nearest 1 mil). Enter fire for effect (FFE) after 1st round burst.

PERFORMANCE STEPS:

1. Perform pre-operations checks on Laser Range Finder and global positioning system devices.
2. Conduct a compass compensation.

3. Connect the current Common Laser Range Finder to the current global positioning system via the J2 port.
4. Aim the laser range finder at the target.
5. Press both direction and distance buttons simultaneously.
6. Obtain the target location data from the global positioning system.
7. Transmit the call for fire.
8. Send appropriate burst direction, distance and vertical angle.
9. Fire for effect.
10. Transmit refinement, EOM, and surveillance.

REFERENCES:

1. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller
2. Operators Manual TM for Laser Range Finder

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA45 Cartridge, 120mm Mortar High Explosive	8 mortars per Marine
D529 Projectile, 155mm High Explosive M79	8 projectiles per Marine
DA12 Charge, Propellant 155mm MACS M231	4 charges per Marine
DA13 Charge, Propellant 155mm MACS M232	4 charges per Marine
N340 Fuze, Point Detonating M739/M739A1	8 fuzes per Marine
N523 Primer, Percussion M82	8 cartridges per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

EQUIPMENT: SL-3 complete laser range finder with applicable technical manuals.

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. When an observer is equipped with a laser range finder, one-round adjust missions should be standard.
2. This event will be conducted utilizing appropriate fire C2 and manual methods.
3. SIMULATION SUPPORT: This event may also be conducted and/or supplemented by the use of a Category I or II simulation devices and a simulation device operator.

0802-FSO-1003: Conduct a Fire For Effect (FFE) mission

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the equipment organic to the Fire Support Officer, a designated target, and communications with the appropriate agency.

STANDARD: Initiating the call for fire within 60 seconds of target identification and achieve the effects on target.

PERFORMANCE STEPS:

1. Determine the target location.
2. Prepare and transmit the Call For Fire (CFF).
3. Transmit refinement data (if any), Record as Target (if desired), End of Mission (EOM), and surveillance.

REFERENCES:

1. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA45 Cartridge, 120mm Mortar High Explosi	6 mortars per Marine
D529 Projectile, 155mm High Explosive M79	6 projectiles per Marine
DA12 Charge, Propellant 155mm MACS M231	3 charges per Marine
DA13 Charge, Propellant 155mm MACS M232	3 charges per Marine
N340 Fuze, Point Detonating M739/M739A1	6 fuzes per Marine
N523 Primer, Percussion M82	6 cartridges per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. This event will be conducted utilizing appropriate fire C2 and manual methods.
2. SIMULATION SUPPORT: This event may also be conducted and/or supplemented by the use of a Category I or II simulation devices and a simulation device operator.

0802-FSO-1004: Conduct an illumination mission

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the equipment organic to the Fire Support Officer a designated target, and communications with the appropriate agency.

STANDARD: Initiating the call for fire within 60 seconds of target identification and announcing subsequent corrections within 15 seconds and adequately illuminating the target area.

PERFORMANCE STEPS:

1. Locate the target area to be illuminated.
2. Transmit the complete illumination call for fire, in proper sequence.
3. Determine and transmit subsequent corrections.
4. Transmit appropriate refinement, End of Mission (EOM), and surveillance.

REFERENCES:

1. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA46 Cartridge, 120mm Mortar Illumination	4 mortars per Marine
D505 Projectile, 155mm Illuminating M485A	4 projectiles per Marine
DA12 Charge, Propellant 155mm MACS M231	2 charges per Marine
DA13 Charge, Propellant 155mm MACS M232	2 charges per Marine
N289 Fuze, Electronic Time M762A1 Sub f/N	4 fuzes per Marine
N523 Primer, Percussion M82	4 cartridges per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. This event will be conducted utilizing appropriate fire C2 and manual methods.
2. SIMULATION SUPPORT: This event may also be conducted and/or supplemented by the use of a Category I or II simulation devices and a simulation device operator.

0802-FSO-1005: Conduct an immediate smoke mission

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the equipment organic to the Fire Support Officer a designated target, and communications with the appropriate agency.

STANDARD: Transmitting the Call For Fire (CFF) within 30 seconds of target location, initial target location is within 300 meters of the actual target location, and obscure the target.

PERFORMANCE STEPS:

1. Determine the adjusting point (target itself) of immediate smoke.
2. Transmit the complete Call for Fire (CFF) in the proper sequence.
3. Determine and transmit subsequent corrections, as required.
4. Spot initial rounds and determine and transmit deviation and range corrections to provide effective coverage. Minimum deviation and range corrections are 50 and 100 meters, respectively.
5. Determine height-of-burst corrections, as necessary.
6. End mission when desired results are achieved.

REFERENCES:

1. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA49 Cartridge, 120mm Mortar Smoke M1103	4 mortars per Marine
D528 Projectile, 155mm Smoke White Phosph	4 projectiles per Marine
DA12 Charge, Propellant 155mm MACS M231	2 charges per Marine
DA13 Charge, Propellant 155mm MACS M232	2 charges per Marine
N289 Fuze, Electronic Time M762A1 Sub f/N	4 fuzes per Marine
N523 Primer, Percussion M82	4 cartridges per Marine
DWGU Tail Charge Assembly (TCA) M237	4 cartridges per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. This event will be conducted utilizing appropriate fire C2 and manual methods.
2. SIMULATION SUPPORT: This event may be conducted and/or supplemented with the use of a Category I or II simulation devices and a simulation device operator.

0802-FSO-1006: Conduct a quick smoke mission

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the equipment organic to the Fire Support Officer a designated target, communications with the appropriate agency, and guidance for the most vulnerable point (MVP), length, and duration for the smoke.

STANDARD: Transmitting the Call for Fire (CFF) within 90 seconds of target identification, initial target location is within 200 meters of the actual target location, and subsequent corrections made within 15 seconds of the previous burst.

PERFORMANCE STEPS:

1. Determine the size of the area to be obscured or screened.
2. Determine the maneuver-target line.
3. Determine the wind direction in relation to the maneuver-target line.
4. Determine the desired screening or obscuration effect (visual or infrared/IR).
5. Determine the adjusting point.
6. Prepare and transmit Call For Fire (CFF).
7. If target is located by grid coordinate, transmit the OT direction before or with the first correction.
8. Transmit corrections.
9. Switch to smoke when a 200-meter bracket is split.
10. Request fire for effect with smoke following adjustment of initial smoke round, if desired effects achieved.
11. Transmit refinement data (if any), Record as Target (if desired), End of Mission (required), and surveillance (required).

REFERENCES:

1. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA49 Cartridge, 120mm Mortar Smoke M1103	6 mortars per Marine
D528 Projectile, 155mm Smoke White Phosph	6 projectiles per Marine
D529 Projectile, 155mm High Explosive M79	3 projectiles per Marine
DA12 Charge, Propellant 155mm MACS M231	5 charges per Marine
DA13 Charge, Propellant 155mm MACS M232	5 charges per Marine
N289 Fuze, Electronic Time M762A1 Sub f/N	6 fuzes per Marine
N340 Fuze, Point Detonating M739/M739A1	3 fuzes per Marine
N523 Primer, Percussion M82	9 cartridges per Marine
DWGU Tail Charge Assembly (TCA) M237	6 cartridges per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. If the M825 round is used, no HOB adjustment is necessary.

2. Standard should be observed under ideal weather conditions.
3. This event will be conducted utilizing appropriate fire C2 and manual methods.
4. SIMULATION SUPPORT: This event may be conducted and/or supplemented with the use of a Category I or II simulation devices and a simulation device operator.

0802-FSO-1007: Conduct a danger close fire mission

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the equipment organic to the Fire Support Officer a designated target, and communications with the appropriate agency.

STANDARD: In order to bring effective fires on a target located within 600 meters or less of a friendly position.

PERFORMANCE STEPS:

1. Determine the target location.
2. Determine danger close offset requirements.
3. Prepare and submit the Call For Fire (CFF).
4. Announce Danger Close in the Method of Fire and Control.
5. Determine and transmit subsequent corrections within 15 seconds of burst.
6. Adjust fires using creeping fire techniques.
7. Request Fire For Effect (FFE).
8. Transmit refinement data (if any), Record as Target (if desired), End of Mission (required), and surveillance (required).

REFERENCES:

1. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M79	11 charges per Marine
DA12 Charge, Propellant 155mm MACS M231	6 charges per Marine
DA13 Charge, Propellant 155mm MACS M232	6 charges per Marine
N340 Fuze, Point Detonating M739/M739A1	11 fuzes per Marine
N523 Primer, Percussion M82	11 cartridges per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

EQUIPMENT: SL-3 complete laser range finder with applicable technical manuals.

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Due to safety and range training restrictions, the "Creeping Fires" technique can be used within an approved impact area to simulate a danger close mission. Appropriate commands will still be verbally demonstrated.
2. This event will be conducted utilizing appropriate fire C2 and manual methods.
3. SIMULATION SUPPORT: This event may be conducted and/or supplemented with the use of a Category I or II simulation devices and a simulation device operator.

0802-FSO-1008: Conduct fire mission on irregularly shaped targets

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given equipment organic to a Fire Support Officer and an irregularly shaped target.

STANDARD: To achieve the desired effects, center grids are within 200 meter of actual target location and attitude is sent to the nearest 100 mils.

PERFORMANCE STEPS:

1. Prepare and transmit complete Call For Fire (CFF), in proper sequence, within 2 minutes of target identification.
2. Transmit two grids or a center grid with length and attitude to describe linear targets.
3. Transmit three or more grids to locate a target when needed. For example, use three or more grids to accurately portray a uniquely shaped target that is "L" shaped.
4. Determine and transmit subsequent corrections.
5. Adjust on to an adjusting point using hasty or successive bracketing.
6. Send all subsequent corrections within 15 seconds of HE burst.
7. Transmit refinement data (if any), Record as Target (if desired), End Of Mission (EOM), and surveillance.

REFERENCES:

1. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA45 Cartridge, 120mm Mortar High Explosi	10 mortars per Marine
D529 Projectile, 155mm High Explosive M79	10 projectiles per Marine
DA12 Charge, Propellant 155mm MACS M231	5 charges per Marine
DA13 Charge, Propellant 155mm MACS M232	6 charges per Marine
N340 Fuze, Point Detonating M739/M739A1	10 fuzes per Marine
N523 Primer, Percussion M82	10 cartridges per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. This event will be conducted utilizing appropriate fire C2 and manual methods.
2. SIMULATION SUPPORT: This event may be conducted and/or supplemented with the use of a Category I or II simulation devices and a simulation device operator.

0802-FSO-1009: Adjust final protective fires

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given equipment organic to a Fire Support Officer.

STANDARD: To the location specified by the company commander.

PERFORMANCE STEPS:

1. Select an adjusting point based on the maneuver commander's guidance.
2. Transmit FPF as the target description of the CFF.
3. Transmit the complete call for fire in the proper sequence announcing, "DANGER CLOSE."
4. Adjust fires using creeping fire techniques.
5. Determine and transmit subsequent corrections for each piece to the nearest 10 meters.
6. Continue adjustment until round bursts within 50 meters of the desired location.
7. Transmit refinement data and instruct the Fire Direction Center (FDC) to begin firing the next piece.
8. When last piece is adjusted; FPF is adjusted.
9. End of Mission (EOM).

REFERENCES:

1. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M79	32 projectiles per Marine
DA12 Charge, Propellant 155mm MACS M231	16 charges per Marine
DA13 Charge, Propellant 155mm MACS M232	10 charges per Marine
N340 Fuze, Point Detonating M739/M739A1	32 fuzes per Marine
N523 Primer, Percussion M82	32 cartridges per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. If the FDC is AFATDS equipped, only the center weapon is adjusted onto the center grid of the FPF and the adjustment is then terminated. Manual gunnery requires that all guns be adjusted into the FPF. A laser designator equipped observer may laser specific aimpoints for each gun in the firing element. Each gun will then be aimed at that point. This TTP can be used to cover smaller areas of dead space where a linear sheaf would not be appropriate.
2. This event will be conducted utilizing appropriate fire C2 and manual methods.
- 3 **SIMULATION SUPPORT:** This event may be conducted and/or supplemented with the use of a Category I or II simulation devices and a simulation device operator.

0802-FSO-1010: Conduct a mission on a moving target

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given equipment organic to a Fire Support Officer.

STANDARD: In order to destroy or neutralize a moving target.

PERFORMANCE STEPS:

1. Identify a moving target.
2. Select an Intercept Point (IP) along the target's likely route of march as the target location.

3. Prepare and transmit a Call For Fire (CFF).
4. State the target is moving in your target description portion of the call for fire.
5. State AMC in the "Method of Control" portion of the call for fire.
6. Determine the trigger point based on enemy rate and route of march, TOF, transmission time, and firing assets processing time.
7. Conduct the mission.
8. Transmit refinement data (if any), Record as Target (if desired), End of Mission (required), and surveillance (required).

REFERENCES:

1. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA45 Cartridge, 120mm Mortar High Explosi	10 mortars per Marine
D529 Projectile, 155mm High Explosive M79	10 projectiles per Marine
DA12 Charge, Propellant 155mm MACS M231	5 charges per Marine
DA13 Charge, Propellant 155mm MACS M232	5 charges per Marine
N340 Fuze, Point Detonating M739/M739A1	10 fuzes per Marine
N523 Primer, Percussion M82	10 cartridges per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. For planned targets, adjust rounds to IP if possible. This will improve first round accuracy and increase the damage to the target.
2. This event will be conducted utilizing appropriate fire C2 and manual methods.
3. SIMULATION SUPPORT: This event may be conducted and/or supplemented with the use of a Category I or II simulation devices and a simulation device operator.

0802-FSO-1011: Conduct a precision registration, quick and time

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given equipment organic to a Fire Support Officer and an MTO from the FDO initiating the precision registration.

STANDARD: In order to determine refinement data to obtain spotting of 4 useable rounds with the same data or data 25 meters apart (impact portion of the registration mission), and correct the mean height of burst of 4 time-fuzed rounds with the same data to 20 meters above the registration point.

PERFORMANCE STEPS:

1. Determine the OT factor and read back OT direction once ready to observe.
2. Draw a diagram of the impact of all rounds, recording the spotting to the nearest mil.
3. Split the 100-meter bracket by requesting, "ADD (DROP) 50."
4. Spot the next round. Split the 50-meter bracket by requesting, "2 ROUNDS, ADD (DROP) 25", as appropriate, to obtain an opposite spotting.
5. Request, "1 ROUND, ADD (DROP) 25", as appropriate, if these rounds are spotted opposite that of the previous spotting, to make the next round impact opposite the last 2 rounds.
6. Determine and announce the range and deviation refinement data to the nearest 10 meters.
7. Announce, "RECORD AS REGISTRATION POINT, TIME REPEAT, OVER."
8. Request, "3 ROUNDS, REPEAT", once a measurable airburst is obtained.
9. Record the spotting of each round.
10. Determine the appropriate mean HOB correction of the 4 rounds to achieve a 20-meter HOB.
11. Transmit HOB refinement and end the registration.

REFERENCES:

1. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA45 Cartridge, 120mm Mortar High Explosive	11 mortars per Marine
D529 Projectile, 155mm High Explosive M79	11 projectiles per Marine
DA12 Charge, Propellant 155mm MACS M231	6 charges per Marine
DA13 Charge, Propellant 155mm MACS M232	6 charges per Marine
N340 Fuze, Point Detonating M739/M739A1	11 fuzes per Marine
N523 Primer, Percussion M82	11 cartridges per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. This event will be conducted utilizing appropriate fire C2 and manual methods.
2. SIMULATION SUPPORT: This event may be conducted and/or supplemented with the use of a Category I or II simulation devices and a simulation device operator.

0802-FSO-1012: Conduct a Suppression of Enemy Air Defense (SEAD) fire mission

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given equipment organic to a Fire Support Officer, the need to suppress enemy air defenses in the vicinity of the target area, ingress and egress routes, and a Forward Air Controller (FAC) or Joint Terminal Air Controller (JTAC) if aircraft are used.

STANDARD: In order to successfully degrade or neutralize enemy air defenses to allow safe maneuver of aircraft in-and-out of target area, ensure the marking round impacts 30 seconds (for WP) 45 seconds (for illumination on deck) before the aircraft's bombs impact on the target, and ensure the marking round is within 300 meters of the target.

PERFORMANCE STEPS:

1. Identify enemy air threat locations and location to mark.
2. Identify which SEAD timeline best supports tactical situation (Continuous, Interrupted or Non-standard).
3. Transmit the Call For Fire (CFF).
4. Transmit End of Mission (EOM) and Surveillance.

REFERENCES:

1. MCRP 3-16.2 Techniques and Procedures for Fire Support Coordination
2. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D505 Projectile, 155mm Illuminating M485A	1 projectiles per Marine
D528 Projectile, 155mm Smoke White Phosph	1 projectiles per Marine
D529 Projectile, 155mm High Explosive M79	10 projectiles per Marine
DA12 Charge, Propellant 155mm MACS M231	6 charges per Marine
DA13 Charge, Propellant 155mm MACS M232	6 charges per Marine
N289 Fuze, Electronic Time M762A1 Sub f/N	2 fuzes per Marine
N340 Fuze, Point Detonating M739/M739A1	10 fuzes per Marine
N523 Primer, Percussion M82	12 cartridges per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

UNITS/PERSONNEL: Forward Air Controller or Joint Terminal Air Controller.

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. This event will be conducted utilizing appropriate fire C2 and manual

methods.

2. Ammunition requirement is based on one continuous and one interrupted SEAD mission per observer for proficiency, per iteration, and the total for annual sustainment.

3. SIMULATION SUPPORT: This event may be conducted and/or supplemented with the use of a Category I or II simulation devices and a simulation device operator.

0802-FSO-1013: Conduct a coordinated illumination mission

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

DESCRIPTION: After illuminating a target area, and suspected adversary forces have been identified.

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the equipment organic to the Fire Support Officer, communications with the appropriate agency; suspected enemy activity is detected during the hours of darkness.

STANDARD: To engage the target with effective fires and obtain desired effects. HE call for fire will be transmitted within 60 seconds of identifying the target as adversary; initial HE round is within 200 meters of the actual target; and, the HE FFE is within +/-50 meters of the actual target.

PERFORMANCE STEPS:

1. Transmit an Illumination Call for Fire.
2. Transmit illumination mark when the illumination round best illuminates the target.
3. Transmit coordinated illumination Call for Fire (CFF), in proper sequence.
4. Determine and transmit subsequent corrections within 15 seconds of High Explosive (HE) round impact.
5. Fire for Effect (FFE).
6. Transmit refinement data (if any), Record as Target (if desired), End of Mission (required), and surveillance (required).

REFERENCES:

1. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
CA45 Cartridge, 120mm Mortar High Explosi	7 mortars per Marine

CA46 Cartridge, 120mm Mortar Illumination	10 mortars per Marine
D505 Projectile, 155mm Illuminating M485A	7 projectiles per Marine
D529 Projectile, 155mm High Explosive M79	10 projectiles per Marine
DA12 Charge, Propellant 155mm MACS M231	9 charges per Marine
DA13 Charge, Propellant 155mm MACS M232	8 charges per Marine
N289 Fuze, Electronic Time M762A1 Sub f/N	7 fuzes per Marine
N340 Fuze, Point Detonating M739/M739A1	10 fuzes per Marine
N523 Primer, Percussion M82	17 cartridges per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. This event will be conducted utilizing appropriate fire C2 and manual methods.
2. SIMULATION SUPPORT: This event may be conducted and/or supplemented with the use of a Category I or II simulation devices and a simulation device operator.

0802-FSO-1014: Conduct company-level fire support planning

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a scheme of maneuver and multiple fire support assets.

STANDARD: In order to develop a fire support plan that supports the scheme of maneuver.

PERFORMANCE STEPS:

1. Integrate organic and supporting Indirect Fire Weapons and air assets into Fire Support Plan.
2. Provide guidance and supervise the setup of all artillery-related digital devices for operations.
3. Brief Maneuver Commander on Company-level Fire Support Plan.
4. Develop a Quick Fire Plan.
5. Develop a fire support overlay.
6. Prepare the Company-level Fire Support Execution Matrix.
7. Recommend FSCMs to the Maneuver Commander.

REFERENCES:

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

3. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller
4. MCWP 3-23.1 Close Air Support
5. MCWP 3-42.1 Fire Support in MAGTF Operations

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10005. 2000-LEVEL EVENTS

0802-BTRY-2001: Coordinate logistics

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0802

BILLETS: Btry AXO, Btry XO

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given references, materials, equipment, and while conducting tactical operations.

STANDARD: Ensuring that the artillery unit has logistical support to accomplish the mission.

PERFORMANCE STEPS:

1. Coordinate with the appropriate level Ground Combat Element (GCE)/Logistics Combat Element (LCE).
2. Coordinate with appropriate level S-4 Section for maintenance and re-supply
3. Supervise the pick-up and delivery of various classes of supply.
4. Supervise the conduct Preventative Maintenance and Corrective Maintenance in the field.

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
 2. MCWP 4-12 Operational-Level Logistics
-

0802-BTRY-2005: Direct the defense

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0802

BILLETS: Btry AXO, Btry CO, Btry XO, Fire Direction Officer, Plt Cmdr, S-4

GRADES: 2NDLT, 1STLT, CAPT, MAJ

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an artillery unit in the field.

STANDARD: Ensuring the application of METT-TSL.

PERFORMANCE STEPS:

1. Select the appropriate course of action based upon the tactical scenario.
2. Establish the plan for the defense.
3. Supervise the execution of the defensive plan.
4. Establish procedures for destruction of equipment and material.

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery 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:

Direct defense plan against following methods:

1. Defense against enemy armor/mechanized force.
2. Defense against air attack.
3. Defense against dismounted attack.
4. Defense in operations other than war.
5. Defense against indirect fire
6. Defense against CRBN attack

0802-FDC-2000: Coordinate the employment of target acquisition assets

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0802

BILLETS: Operations Officer

GRADES: CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a tactical scenario, list of available Target Acquisition assets, the commander's scheme of maneuver, and the reference.

STANDARD: Ensuring the recommendation includes the capabilities and limitations to meet mission requirements.

PERFORMANCE STEPS:

1. Coordinate the employment of radar assets.
2. Coordinate the employment of sensor assets.

REFERENCES:

1. MCRP 3-16A Tactics, Techniques, and Procedures for the Targeting Process
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-16.7 Marine Artillery Survey Operations

0802-FSC-2000: Supervise the operations of a maneuver Fire Support Coordination Center (FSCC)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0802

BILLETS: BN Fire Support Officer, DIV AFSC, DIV FSC, REG FSO

GRADES: CAPT, MAJ, LTCOL, COL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given the references, a maneuver Fire Support Coordination Center (FSCC) complete with personnel and equipment, and a tactical situation requiring FSCC operations.

STANDARD: Executing plans that support the scheme of maneuver.

PERFORMANCE STEPS:

1. Obtain the commander's concept of fire support and develop, with the commander and operations officer, the overall fire support plan.
2. Supervise and coordinate the development of the supporting arms plans to execute the overall fire support tasks.
3. Supervise the preparation of fire plans by resolving conflicts regarding selection of targets, assignment of fire support means, type and method of fire supporting, and timing or scheduling of missions or fires.
4. Review fire plans to ensure they can be implemented with the fire support means available and, if necessary, coordinate with the operations officer and commander to secure additional means or to modify plans.
5. Ensure precision guided and conventional fires are fully coordinated.
6. Ensure unnecessary duplication of fires is eliminated.
7. Ensure plans of the various supporting arms are coordinated.
8. Ensure adequate fires are planned on targets and critical areas.
9. Ensure efficient use is made of all supporting arms.
10. Present the fire support plan to the commander.
11. Assist supporting arms representatives in selection of coordination measures and recommend them to the commander for approval.
12. Approve and institute airspace coordination areas and any plans for trajectory limitations to ensure the safety of aircraft and the coordination of the other supporting arms with air operations.
13. Obtain clearance and coordinate strikes or missions of supporting arms which might endanger or hinder the operations of an element of the amphibious task force.
14. Ensure the FSCC receives and disseminates available target information to all staff sections and commands requiring the information.
15. Coordinate with the Target Information Officer (TIO) and the commander and his staff in the selection of targets and assignment of classification and attack priorities.
16. Maintain close liaison and working relations with the operations officer and the intelligence officer to ensure the most effective planning and application of fire support.
17. Ensure, in conjunction with the operations officer, timely and adequate warning of the delivery of precision guided and special munitions is disseminated to all appropriate commands.
18. Ensure the situation map is maintained and necessary operational records of the FSCC are kept.
19. Ensure the most effective means of attacking targets is used.
20. Ensure target classifications and attack priorities are correctly assigned.
21. Supervise the coordination of cross boundary fires.
22. Supervise the collection and dissemination of target data to include target lists and target bulletins. If your FSCC is not the senior FSCC,

- submit a list of targets accordingly.
23. Transmit the necessary enemy information collected at the FSCC to all applicable artillery units.
 24. Perform other command and liaison duties as directed by the commander.
 25. Supervise the performance of those assigned to operate in the FSCC.
 26. Supervise the coordination of cross boundary fires.
 27. Coordinate with supported units fires cells.
 28. Supervise Regiment and Battalion Tactical Fire Control.
 29. Supervise AFTADS Mission Processing in an FSCC.
 30. Supervise Target Report Processing.
 31. Prepare a Target Bulletin.
 32. Supervise the request of air assets.
 33. Supervise the maintenance of a Common Operational Picture (COP).
 34. Supervise the processing of a fire plan.

REFERENCES:

1. ATP 4 (E) CH 7 Allied Naval Gunfire Support
 2. FM 6-20-30 Fire Support for Corps and Divisions
 3. FM 6-20-40 Fire Support for Brigade Operations (Heavy)
 4. FM 6-20-50 Fire Support for Brigade Operations (Light)
 5. MCRP 3-16A Tactics, Techniques, and Procedures for the Targeting Process
 6. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
 7. MCWP 3-43.3 Marine Air-Ground Task Force Fires
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0802-FSC-2001: Plan fire support for Marine Air Ground Task Force (MAGTF) operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0802

BILLETS: BN Fire Support Officer, DIV AFSC, DIV FSC, REG FSO

GRADES: 1STLT, CAPT, MAJ, LTCOL, COL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given fire support assets (organic, attached, and/or OPCON), commander's guidance, and the references.

STANDARD: Developing a fire support plan that supports the scheme of maneuver.

PERFORMANCE STEPS:

1. Analyze commander's guidance/concept of fires/concept of operations.
2. Develop Essential Fire Support Tasks (EFST).
3. Determine High Value Targets (HVTs).
4. Develop the High Payoff Target List (HPTL).
5. Integrate organic, attached, and/or OPCON cueing assets per the High Payoff Target List (HPTL).
6. Integrate Marine Air Ground Task Force (MAGTF) fires plan with MAGTF recon-surveillance plan.

7. Allocate/apportion fire support assets (lethal and non-lethal/electronic attack).
8. Prepare the Attack Guidance Matrix (AGM).
9. Back-brief the commander.
10. Disseminate the plan.
11. Develop fire planning criteria as part of the MCFSS enclosure to the artillery fires plan.
12. Integrate the MCFSS enclosure within an artillery fires plan.
13. Plan the execution of jump operations within an amphibious scenario.
14. Plan an artillery estimate of supportability.

REFERENCES:

1. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
2. MCWP 3-16.1 Artillery Operations
3. MCWP 3-43.3 Marine Air-Ground Task Force Fires

0802-FSO-2001: Conduct a close air support terminal control

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: MOJT

CONDITION: Operating as a certified Joint Fires Observer (JFO) and given a scenario requiring a close air support strike in communications with a Joint Terminal Air Controller (JTAC), the references, equipment organic to a Fire Support Team, an attack aircraft with ordnance, and an information sheet containing: an aircraft call sign, mission number, type ordnance load, enemy situation, friendly situation, attack restrictions, and a radio frequency.

STANDARD: Delivers effects in order to support the scheme of maneuver.

PERFORMANCE STEPS:

1. Consider the air threat situation.
2. Obtain the commander's approval before sending the Close Air Support (CAS) request.
3. Determine type of control (1,2,3).
4. Send immediate requests to the Fire Support Coordination Center (FSCC).
5. Transmit immediate Close Air Support (CAS) requests within 2 minutes of target identification.
6. Plan for and implement Suppression of Enemy Air Defenses (SEAD) as required based on the assessment of the air threat. (See task 0802-FO-1021, Conduct a Suppression Of Enemy Air Defense (SEAD) fire mission.)
7. Transmit the 9 line brief to the pilot or JTAC, as required, when the aircraft reaches the CP.
8. Transmit the Time On Target (TOT) to the pilot after the 9 line brief.
9. Mark the target using artillery, mortars, or Naval Surface Fire Support

(NSFS), as necessary. The mark should be within 200 meters of the target and 30 or 45 seconds before Time To Target (TTT) based on ammunition used to mark.

10. Upon pilot reporting "IP inbound," if ready, give the command to "Continue."
11. Give the pilot final adjustment, in meters, from the marking round (reference point, to the target).
12. When ready to engaged the target, give appropriate command to pilot per the type of control ("Cleared Hot" or "Cleared to Engage").
13. Adjust from previous aircraft hits to target giving reference to cardinal headings for follow-on aircraft.
14. Transmit effects of the strike to the aircraft and Fire Support Coordination Center (FSCC), as appropriate.

REFERENCES:

1. JP 3-09.3 Close Air Support
2. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller
3. MCWP 3-23.1 Close Air Support
4. STANAG 3797 Minimum Qualifications for Forward Air Controller

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: SIMULATION SUPPORT: This event may be conducted and/or supplemented with the use of a Category I or II simulation devices and a simulation device operator.

0802-FSO-2002: Use automated methods to engage targets with GPS guided munitions

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0802

BILLETS: Co Fire Support Officer

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given equipment organic to Fire Support Team, established digital communications with higher, adjacent and supporting units and an automated system needed to complete the task.

STANDARD: To successfully engage a target with GPS guided munitions using Target Mensuration Only (TMO) tool.

PERFORMANCE STEPS:

1. Ensure TMO software is properly installed on ODT.
2. Determine initial target location.
3. Conduct refinement of target data utilizing dynamic targeting tools i.e. PSS-SOF.
4. Transmit refined target data to appropriate agency.

REFERENCES:

1. CJCSI 3505.01A Target Coordinate Mensuration Certification and Program Accreditation
2. MCRP 3-16.2 Techniques and Procedures for Fire Support Coordination
3. MCRP 3-16E Fire Support Systems for MAGTF Operations
4. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller
5. TM 10938B-OR TLDHS Technical Manual

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
DA13 Charge, Propellant 155mm MACS M232	1 charge per Marine
DA45- Projectile, 155mm Excalibur	1 projectiles per Marine
NA28- Fuze, Precision Guidance Kit M1156	1 fuze per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

OTHER SUPPORT REQUIREMENTS: SIMULATION REQUIREMENTS: To facilitate training, FSO requires Excalibur simulation software for a virtual trainer.

0802-HMRS-2000: Supervise preparation of the HIMARS Battery Operations Center/Platoon Operations Center

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0802

BILLETS: Btry XO, Fire Direction Officer, Plt Cmdr

GRADES: 2NDLT, 1STLT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given Battery Operations Center/Platoon Operations Center personnel, fire direction equipment, and an AFATDS.

STANDARD: Ensuring the BOC/POC is prepared to occupy a firing area.

PERFORMANCE STEPS:

1. Supervise construction of the AFATDS database.
2. Supervise the creation and implementation of a communications configuration.
3. Supervise the emplacement of the BOC/POC.

REFERENCES:

1. AFATDS Supervisor's Notebook (AFATDS 6.4.0.0)
 2. MCWP 3-16.1A Tactics, Techniques, and Procedures for Target Acquisition
 3. USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0) USMC HIMARS AFATDS Job Aids (AFATDS Version 6.4.0.0)
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0802-MGTF-2001: Execute duties of Force Fires Coordinator

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

MOS PERFORMING: 0802

BILLETS: Assistant Force Fires Coordinator, Force Fires Coordinator

GRADES: MAJ, LTCOL, COL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given all the elements of a Force Fires Coordination Center, a MAGTF Headquarters operating within a Joint/Combined/Interagency environment, a higher headquarters operations order, commander's guidance and references.

STANDARD: Facilitate the integration of Joint and MAGTF fires to support the scheme of maneuver.

PERFORMANCE STEPS:

1. Operate a Force Fires Coordination Center.
2. Ensure the commanding generals targeting priorities are followed.
3. Review MSC fire support plans to ensure they support the MEFs concept of fires.
4. Ensure MSCs have adequate support to successfully conduct operations.
5. Coordinate/disseminate battlefield geometry.
6. Advise the MEF commander/G-3 on current capabilities, limitations and employment of fires assets.
7. Provide representation to the operational planning team to plan fires.
8. Destroy or substantially degrade enemy operational capabilities.
9. Facilitate maneuver by the ACE and GCE by suppressing the enemies deep strike systems, disrupting the enemies operational maneuver and tempo, and creating exploitable gaps in enemy positions.
10. Isolate the battlespace by interdicting enemy military potential before it can effectively be used against friendly forces.
11. Provide timely reactive fires.
12. Redirect resources as required.
13. Facilitate execution/modification of the ATO.
14. Monitor and coordinate counterfire.
15. Coordinate cross boundary fires with higher and adjacent headquarters.
16. Resolve fire support conflicts.

REFERENCES:

1. ATP 4 (E) CH 7 Allied Naval Gunfire Support
2. FMFM 2-7 Fire Support in MAGTF Operations
3. MCRP 3-15.2A Mortars
4. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
5. MCRP 3-16.6A Multi-Service Procedures for the Joint Application of Firepower (J-FIRE)
6. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
7. MCWP 3-16.1 Artillery Operations
8. MCWP 3-23.1 Close Air Support
9. MCWP 3-25.3 Marine Air Command and Control System Handbook

10. MCWP 3-40.4 MAGTF Information Operations
11. MCWP 3-43.3 Marine Air-Ground Task Force Fires

SUPPORT REQUIREMENTS:

ROOMS/BUILDINGS:

1. Combined Arms Staff Trainer (CAST)
 2. Combat Operations Center Battle Lab
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0802-MGTF-2002: Conduct joint targeting

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0802

BILLETS: Assistant Force Fires Coordinator, Force Fires Coordinator, Target Information Officer

GRADES: MAJ, LTCOL, COL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given supporting attachments operating in a Joint, Combined, and/or Interagency environment, a higher headquarters order, and commander's guidance.

STANDARD: To support the concept of operations and maximize effects IAW commander's intent.

PERFORMANCE STEPS:

1. Conduct Target Value Analysis (TVA).
2. Identify High Value Targets (HVT).
3. Identify High-Payoff Targets (HPT).
4. Develop a High-Payoff Targets List (HPTL).
5. Conduct target development, validation, nomination, and prioritization.
6. Identify availability, capabilities and limitations of MAGTF, joint and combined fire support assets.
7. Integrate planning with the Joint Targeting Cycle.
8. Integrate planning with the Joint Air Tasking Order Cycle.
9. Nominate Targets for Submission to the Joint Integrated Prioritized Target List (JIPTL).
10. Nominate Time-Sensitive Targets (TST) for attack by appropriate Fire Support assets.
11. Lead or facilitate MAGTF Targeting Board.
12. In collaboration with joint organizations, develop fire support coordination measures to integrate joint fires into the battlespace.
13. Conduct fire support coordination of joint assets.
14. Conduct combat assessment.
15. Nominate targets for re-attack based on Combat Assessment.

REFERENCES:

1. FM 3-52.2 Multi-Service Tactics, Techniques, and Procedures for the

- Theater Air Ground System (TAGS)
2. JP 3-09 Joint Fire Support
 3. JP 3-09.3 Close Air Support
 4. JP 3-60 Joint Targeting
 5. MCRP 3-16D Multi-Service TTP for Targeting Time-Sensitive Targets

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Joint fire support includes Army, Navy, Air Force and Marine Corps artillery, rocket, missile, naval surface fire support (NSFS) systems, fix and rotary-wing aircraft. Identify and select operational level targets that might impact the MAGTFs ability to support the JFC's campaign and conduct major operations. The MAGTF requests support from joint and other components to address requirements beyond the capabilities of its organic fire support.

0802-MGTF-2003: Conduct dynamic targeting

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

DESCRIPTION: Dynamic targeting is the reactive engagement of emerging targets (targets which fall inside the normal ATO/ITO planning cycle) with kinetic and non-kinetic fires IAW the MAGTF Commanders priorities.

MOS PERFORMING: 0802

BILLETS: Assistant Force Fires Coordinator, Force Fires Coordinator, Target Information Officer

GRADES: MAJ, LTCOL, COL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, MAGTF Appendix 19, references and appropriate fires C2 systems as a member of a MAGTF/GCE Headquarters operating within a Joint/Combined/Interagency environment across the Range of Military Operations (ROMO).

STANDARD: To support the timely and effective execution of organic and joint fires and the coordination with MSCs, adjacent commands, and Joint commands and agencies.

PERFORMANCE STEPS:

1. Conduct training of all appropriate staff sections, LNOs, fires personnel in fires C2 systems that support dynamic targeting processes and products.
2. Support Identifying Target Data.
3. Conduct Evaluation of Target Validity, Priority and Initial Requirement.
4. Conduct Attack Decision.
5. Identify/Select appropriate asset.
6. Sending Fire Order/Request and perform additional deconfliction/integration.

7. Conduct following-up with confirmation of attack/BDA.
8. Assess re-attack requirement.
9. Make re-attack decision.
10. Execution of fires under special situations, when required.

REFERENCES:

1. MCRP 3-16E Fire Support Systems for MAGTF Operations
 2. MCWP 3-43.3 Marine Air-Ground Task Force Fires
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0802-MGTF-2004: Conduct joint fires

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0802

BILLETS: Assistant Force Fires Coordinator, Force Fires Coordinator, Target Information Officer

GRADES: MAJ, LTCOL, COL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given supporting attachments operating in a Joint, Combined, and/or Interagency environment, a higher headquarters operations order, commander's guidance, and references.

STANDARD: To support the concept of operations and achieve targeting objectives IAW commander's intent.

PERFORMANCE STEPS:

1. Conduct target development, validation, nomination, and prioritization.
2. Identify availability, capabilities and limitations of the MAGTF, joint and combined fire support assets.
3. Integrate planning with the Joint Targeting Cycle.
4. Integrate planning with the Joint Air Tasking Order Cycle.
5. Nominate targets for attack by Joint Fires.
6. Nominate HPT to JFC for consideration to be designated Time-Sensitive Targets (TST).
7. Nominate Targets for Submission to the Joint Integrated Prioritized Target List (JIPTL).
8. In collaboration with joint organizations, develop fire support coordination measures to integrate joint fires into the battlespace.
9. Conduct fire support coordination of joint assets.
10. Conduct combat assessment.
11. Nominate targets for re-attack based on Combat Assessment.

REFERENCES:

1. FM 3-52.2 Multi-Service Tactics, Techniques, and Procedures for the Theater Air Ground System (TAGS)
2. JP 3-09 Joint Fire Support
3. JP 3-09.3 Close Air Support
4. JP 3-60 Joint Targeting

5. MCRP 3-16D Multi-Service TTP for Targeting Time-Sensitive Targets
6. MCWP 3-43.3 Marine Air-Ground Task Force Fires

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Joint fire support includes Army, Navy, Air Force and Marine Corps artillery, rocket, missile, naval surface fire support (NSFS) systems, fix and rotary-wing aircraft. Identify and select operational level targets that might impact the MAGTF's ability to support the JFC's campaign and conduct major operations. The MAGTF requests support from joint and other components to address requirements beyond the capabilities of its organic fire support.

0802-MGTF-2005: Conduct counterfire

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0802

BILLETS: Assistant Force Fires Coordinator, Force Fires Coordinator, Target Information Officer

GRADES: MAJ, LTCOL, COL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given supporting attachments operating in a Joint, Combined, and/or Interagency environment, a higher headquarters order, and commander's guidance.

STANDARD: To support the concept of operations and allow the MAGTF the freedom to conduct uninterrupted operations in the assigned battlespace IAW commander's intent.

PERFORMANCE STEPS:

1. Develop Counterfire Concept.
2. Develop Counterfire Plan.
3. Conduct Counterfire analysis of enemy FS capability.
4. Establish Counterfire collection plan.
5. Develop Counterfire Matrix.
6. Establish Radar employment.
7. Establish Quickfire Nets.
8. Assign Force Artillery HQ if required.
9. Conduct proactive counterfire.
10. Conduct reactive counterfire.
11. Pass targets to subordinate and adjacent units.

REFERENCES:

1. FMFM 2-7 Fire Support in MAGTF Operations
 2. FMFM 2-7-1 Fire Support Coordination by the MAGTF CE
 3. MCWP 3-16.1 Artillery Operations
 4. MCWP 3-43.3 Marine Air-Ground Task Force Fires
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0802-MGTF-2006: Conduct MAGTF fire support planning

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

BILLETS: Assistant Force Fires Coordinator, Force Fires Coordinator, Target Information Officer

GRADES: MAJ, LTCOL, COL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given supporting attachments operating in a Joint, Combined, and/or Interagency environment, a higher headquarters operations order, and commander's guidance

STANDARD: To rapidly and effectively deliver fires to support the scheme of maneuver/concept of operations.

PERFORMANCE STEPS:

1. Review available intelligence and assess current situation.
2. Identify available fire support assets.
3. Determine desired effects (i.e., suppress, neutralize, or destroy).
4. Develop Essential Fires Support Tasks (EFSTs).
5. Develop Attack Guidance Matrix (AGM).
6. Develop fire support plan in concert with the scheme of maneuver.
7. Employ ISR to support fire support planning.
8. Determine priorities of fires, allocation of assets, positioning of units/agencies.
9. Identify priority targets and make plans to shift as the operation progresses.
10. Establish fire support coordination measures (FSCMs).
11. Coordinate the establishment of Airspace Coordinating Measures (ACMs).
12. Identify ammunition and target restrictions.
13. Identify Rules of Engagement (ROE) restrictions.
14. Coordinates terminal control and target acquisition requirements/assets with higher headquarters.
15. Conduct Targeting Board.
16. Conduct weaponering and Collateral Damage Estimate (CDE).
17. Submit overall fire support requirements for NSFS and artillery to appropriate agencies in a timely manner.
18. Plan for the employment and sustainment of indirect fire assets.
19. Plan for the displacement of the FSC.
20. Plan for the transition of fires control.
21. Coordinate for the use of airspace.
22. Coordinate and integrate subordinate elements fire support plans.
23. Prepare a fire support overlay.
24. Plan for support requirements for Counter Battery Radar employment.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. MCRP 3-16.2 Techniques and Procedures for Fire Support Coordination
3. MCRP 3-16.25 Field Artillery Target Acquisition
4. MCRP 3-16A Tactics, Techniques, and Procedures for the Targeting Process

5. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
6. MCWP 3-23.1 Close Air Support
7. MCWP 3-25 Control of Aircraft and Missiles
8. MCWP 3-40.4 MAGTF Information Operations
9. MCWP 3-43.3 Marine Air-Ground Task Force Fires

0802-PLAN-2000: Develop field artillery support plan

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0802

BILLETS: Assistant Operations Officer, Operations Officer

GRADES: CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: MOJT

CONDITION: While supporting a maneuver unit, given an artillery battalion or regiment operating within a MAGTF/Joint/Combined/Interagency environment, higher headquarters order to included appropriate annexes and appendixes, commander's guidance and references, while implementing the orders process.

STANDARD: To support mission accomplishment and commanders intent.

PERFORMANCE STEPS:

1. Give warning order to staff and initiate MCPP.
2. Develop a positioning overlay.
3. Integrate commander's intent.
4. Develop unit mission statement.
5. Develop concept of operations.
6. Develop sustainment plan.
7. Integrate communications plan.
8. Issue required orders.
9. Conduct confirmation briefs.
10. Coordinate and conduct required rehearsals.
11. Supervise unit preparation for mission execution.

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
3. MCWP 5-1 Marine Corps Planning Process (MCPP)

0802-PLAN-2001: Integrate intelligence into ground combat operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0802

BILLETS: Assistant Operations Officer, Operations Officer

GRADES: MAJ, LTCOL, COL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a battalion or regiment operating within a MAGTF/
Joint/Combined/Interagency environment, higher headquarters order, commander's
guidance and references.

STANDARD: Enabling the commander to make informed decisions to conduct
effective unit operations.

PERFORMANCE STEPS:

1. Identify the operational environment.
2. Identify and assess threat capabilities and intentions.
3. Identify desired methods, media, and products to support Intelligence
Preparation of the Battlefield.
4. Identify desired methods, media, and products to support the intelligence
effort to the Marine Corps Planning Process.
5. Identify parameters and requirements to support intelligence estimates/
assumptions.
6. Develop and recommend FFIRs/PIRs.
7. Integrate intelligence products into orders.
8. Identify desired methods, media, and products to support the intelligence
effort during targeting.
9. Coordinate and integrate collection & ISR plans in support of operational
design.

REFERENCES:

1. JP 2-01 Joint and National Intelligence Support to Military Operations
2. MCDP 1-0 Marine Corps Operations
3. MCRP 2-3A Intelligence Preparation of the Battlefield/Battlespace
4. MCWP 2-3 MAGTF Intelligence Production and Analysis
5. MCWP 2-6 Counterintelligence
6. MCWP 5-1 Marine Corps Planning Process (MCP)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Performance steps are derived from tasks
0202-PLAN-1041, 0202-PLAN-1042, 0202-PLAN-1043, 0202-PLAN-1044, 0202-PLAN-
1045, 0202-PLAN-1940, 0202-TRGT-1050, 0202-ANYS-1901, 0202-ANYS-1902, 0203-
PLAN-1050, 0203-PLAN-1051, 0203-PLAN-1052, 0203-PLAN-1053, 0203-PLAN-
1054, 0203-PLAN-1055, and 0203-TRGT-1060.

See Intelligence T&R Manual for additional information.

0802-PLAN-2003: Integrate fires into ground combat operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0802

BILLETS: Assistant Operations Officer, Force Fires Coordinator, Operations Officer

GRADES: CAPT, MAJ, LTCOL, COL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a battalion or regiment operating within a MAGTF/ Joint/Combined/Interagency environment, higher headquarters order, commander's guidance and references.

STANDARD: To support the commander's scheme of maneuver.

PERFORMANCE STEPS:

1. Plan, coordinate, and integrate the employment of fires to support the scheme of maneuver.
2. Integrate kinetic and non-kinetic fires into fire plans.
3. Integrate the kinetic and non-kinetic fires capabilities of available joint, subordinate and supporting units.
4. Implement deliberate and reactive targeting processes to effectively attack crucial enemy functions and set the conditions for success.
5. Identify and assess threat fire support capabilities.
6. Synchronize fires/effects plan with IO plan.

REFERENCES:

1. ATP 4 (E) CH 7 Allied Naval Gunfire Support
2. MCRP 3-15.2A Mortars
3. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
4. MCRP 3-16.6A Multi-Service Procedures for the Joint Application of Firepower (J-FIRE)
5. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
6. MCWP 3-16.1 Artillery Operations
7. MCWP 3-23.1 Close Air Support
8. MCWP 3-25.3 Marine Air Command and Control System Handbook
9. MCWP 3-40.4 MAGTF Information Operations
10. MCWP 3-40.5 Electronic Warfare
11. MCWP 3-40.6 Psychological Operations

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Performance steps are derived from tasks 0302-FSPT-1301, 0302-FSPT-2301, 0302-FSPT-2302, 0302-OPS-2101, and Core Capability from Weapons Company Commander, Infantry Battalion.

See Infantry T&R Manual for additional information.

0802-PLAN-2004: Integrate logistics into ground combat operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0802

BILLETS: Assistant Operations Officer, Operations Officer, S-4

GRADES: CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a battalion or regiment operating within a MAGTF/
Joint/Combined/Interagency environment, higher headquarters order, commander's
guidance and references.

STANDARD: Developing a concept of logistics and supporting orders products
that support the scheme of maneuver.

PERFORMANCE STEPS:

1. Plan, coordinate and integrate the employment of logistics to support the concept of operations.
2. Integrate the logistics capabilities of available coalition, host nation, interagency organizations and joint, subordinate and supporting units.
3. Identify desired methods, media, and products to support the logistics effort to the Marine Corps Planning Process.
4. Identify parameters and requirements for logistics estimates/assumptions.
5. Identify critical logistical information requirements that will significantly impact operations.
6. Identify and prioritize CSS requirements.

REFERENCES:

1. MCDP 4 Logistics
2. MCWP 4-1 Logistics Operations
3. MCWP 4-11 Tactical-Level Logistics
4. MCWP 4-11.4 Maintenance Operations
5. MCWP 4-11.7 MAGTF Supply Operations
6. MCWP 5-1 Marine Corps Planning Process (MCP)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Performance steps are derived from task 0302-
OPS-2102. See Infantry T&R Manual for additional information.

0802-PLAN-2005: Integrate communications into ground combat operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0802

BILLETS: Assistant Operations Officer, Operations Officer

GRADES: CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a battalion or regiment operating within a MAGTF/
Joint/Combined/Interagency environment, higher headquarters order, commander's

guidance and references.

STANDARD: Developing a concept of communications and supporting orders products that support the scheme of maneuver.

PERFORMANCE STEPS:

1. Plan, coordinate and integrate the employment of communications to support the concept of operations.
2. Identify desired methods, media, and products to support communications planning and orders.
3. Determine and prioritize commander's communication requirements.
4. Identify and integrate the capabilities of organic and relevant, nonorganic communication assets in support of the concept of operation.
5. Identify the tenants of communications.
6. Identify communication readiness resource concerns.
7. Identify elements of communications security.
8. Identify elements of information assurance.

REFERENCES:

1. MCDP 1-0 Marine Corps Operations
2. MCDP-6 Command and Control
3. MCWP 3-40.1 Marine Air-Ground Task Force Command and Control
4. MCWP 3-40.3 MAGTF Communications System, 8 January 2010
5. MCWP 5-1 Marine Corps Planning Process (MCP)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Performance steps are derived from tasks 0602- PLAN-1101, 0602-MNGT-1701, 0602-MNGT-1702, and 0603-PLAN-2101.

See Communication T& R Manual for additional information.

0802-PLAN-2006: Integrate force protection into ground combat operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

MOS PERFORMING: 0802

BILLETS: Assistant Operations Officer, Operations Officer

GRADES: CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a battalion or regiment operating within a MAGTF/Joint/Combined/Interagency environment, higher headquarters order, commander's guidance and references.

STANDARD: To mitigate risk to friendly forces.

PERFORMANCE STEPS:

1. Integrate Force Protection assessments and planning considerations into

- the planning process.
2. Identify requirements for security plan development.
 3. Identify requirements for antiterrorism plan development.
 4. Identify requirements for contingency response options and consequence management procedures.
 5. Identify requirements for logistical support of force protection plan implementation.
 6. Supervise coordination with host nation/local authorities as required.

REFERENCES:

1. JP 3-07.2 Antiterrorism
2. MCDP 1-0 Marine Corps Operations
3. MCWP 2-6 Counterintelligence
4. MCWP 3-40.1 Marine Air-Ground Task Force Command and Control
5. MCWP 3-40.3 MAGTF Communications System, 8 January 2010
6. MCWP 5-1 Marine Corps Planning Process (MCP) .
7. NAVMC 2927 Antiterrorism/Force Protection Campaign Plan

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Performance steps are derived from tasks:
ATO-PLAN-1040, ATO-PLAN-1041, ATO-PLAN-1042, ATO-PLAN-1043, ATO-PLAN-1044,
ATO-PLAN-1045, ATO-PLAN-1046, and ATO-PLAN-1047.

See Antiterrorism Officer T&R Manual for additional information.

0802-PLAN-2007: Develop an Information Management (IM) plan

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 0802

BILLETS: Assistant Operations Officer, Operations Officer

GRADES: CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given all the elements of a Combat Operation Center, a battalion or regiment operating within a MAGTF/ Joint/Combined/Interagency environment, higher headquarters order, commander's guidance and references, .

STANDARD: To facilitate information flow and enhance rapid and timely decision making.

PERFORMANCE STEPS:

1. Determine Information Requirements (IRs) for the staff and commander of each echelon.
2. Determine how to support the staff and commander to meet IRs for each echelon using C4ISR systems within the framework of the battle process.
3. Manage CCIRs.
4. Develop the information management plan for each echelon.

REFERENCES:

1. MCDP 1-0 Marine Corps Operations
2. MCWP 3-1 Ground Combat Operations
3. MCWP 3-40.2 MAGTF Information Management

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This task will be conducted in accordance with OTIC 01.01-09 performance steps.

ARILLERY T&R MANUAL

CHAPTER 11

MOS 0803 INDIVIDUAL EVENTS

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CHAPTER 11

0803 MOS INDIVIDUAL EVENTS

11000. PURPOSE. This chapter details the individual events that pertain to the community. These events are linked to a service-level Mission Essential Tasks (MET). This linkage tailors individual training for the selected MET. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

11001. 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 or military occupational field (0803). The second four digits represent the functional or duty area. The last four digits represent the level, and identifier number of the event. Every individual event has an identifier number from 000 to 999.

11002. INDEX OF 2000-LEVEL EVENTS

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0803-TGT-2700	Develop Tab E (Targeting) of Appendix 19 to Annex C to Operation Order	11-12
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0803-TGT-2703	Coordinate the Targeting Board in MAGTF and Joint Task Force (JTF) level	11-15
0803-TGT-2704	Coordinate target synchronization in support of targeting objectives in MAGTF and JTF level	11-16
0803-TGT-2705	Participate in development of the Intelligence Preparation of the Battlespace (IPB)	11-16
0803-TGT-2706	Conduct tactical dynamic targeting and time sensitive targeting in MAGTF and JTF level	11-17
0803-TGT-2707	Manage target lists	11-18
0803-TGT-2708	Recommend employment of target acquisition assets	11-18
0803-TGT-2709	Conduct Target Mensuration Only (TMO) procedures	11-19

11003. 2000-LEVEL EVENTS

0803-CORE-2900: Determine Mapping, Charting & Geodesy (MC&G) information for fire support systems

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Radar Officer, Sensor Officer, TAP Plt Cmdr, Target Acquisition Officer, Target Information Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a list of current fire support systems, an Area of Operations, map sheets of the area of operations, and computation software; determine ellipsoid and horizontal/vertical datum inputs for programmed and user defined options and verify computations related to datum transformations.

STANDARD: That correctly satisfies the requirements for each system.

PERFORMANCE STEPS:

1. Determine ellipsoid and datum best suited for Area of Operations.
2. Determine inputs for those fire support systems that have the chosen ellipsoid and datum as programmed options.
3. Determine inputs for those fire support systems that do not have the chosen ellipsoid and datum as a programmed option, but do allow for user defined inputs.
4. Determine vertical datum for the area of operations.
5. Verify computations of datum to datum transformations (horizontal).
6. Verify computations of elevations shifts between different Earth Gravity Models and Geoids.
7. Determine map projections and grids best suited for Area of Operations.
8. Determine the need for overlays when map projections are not supported by Fire Support Systems.

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 3-16.7 Marine Artillery Sensor Operations
-

0803-CORE-2902: Supervise GPS NAVAID operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Radar Officer, Sensor Officer, TAP Plt Cmdr, Target Acquisition Officer, Target Information Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an SL-3 complete GPS NAVAID, 1:50,000 scale map of the area, and the reference.

STANDARD: Ensuring GPS NAVAID is set up for the operational area and capable of being used for navigation.

PERFORMANCE STEPS:

1. Identify the components of the GPS NAVAID and describe their use.
2. Supervise mission set-up procedures with GPS NAVAID equipment.
3. Supervise changing batteries of GPS NAVAID equipment.
4. Supervise procedures for performing emergency zeroize of GPS NAVAID equipment.
5. Supervise verification of errors causing GPS NAVAID warning displays and explain the causes of those errors.
6. Store, edit, and delete waypoints from a GPS NAVAID.
7. Navigate using a GPS NAVAID.

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
 2. MCWP 3-16.7 Marine Artillery Sensor Operations
 3. TM 11-5820-1172-13 Operator and Maintenance Manual, Defense Advanced GPS Receiver (DAGR) Satellite Signals Navigation Set AN/PSN-13
 4. TM 11-5825-291-13 Operator and Maintenance Manual For Satellite Signal Navigation Set AN/PSN-11
-

0803-CORE-2903: Supervise embarkation of section equipment and personnel

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Radar Officer, Sensor Officer, TAP Plt Cmdr, Target Acquisition Officer, Target Information Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an artillery sensor or radar section designated as a sourced unit for a contingency.

STANDARD: Ensuring all materiel and personnel are moved to the Point of Embarkation (POE).

PERFORMANCE STEPS:

1. Coordinate with the supported unit or artillery regiment or battalion embarkation officer, and other embarkation officers/movement control officers, as appropriate.
2. Verify the unit's transportation lift requirements on the Unit Deployment List (UDL).
3. Verify all material is properly marked, packaged, manifested, and loaded for embarkation.
4. Conduct embarkation inspections.
5. Execute embarkation/movement plans.

REFERENCES:

1. MCWP 4-11 Tactical-Level Logistics
-

0803-CORE-2904: Supervise maintenance of organic equipment

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Radar Operator, Sensor Chief, TAP Plt Cmdr, Target Acquisition Officer, Target Information Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given maintenance management directives, GCCS-MC output reports and service requests, current unit T/O&E, publications listings (PL), and the references.

STANDARD: Ensuring section equipment is properly maintained and accounted for.

PERFORMANCE STEPS:

1. Inspect all preventive, scheduled and corrective maintenance.
2. Inspect maintenance management program.
3. Inspect Publications Program.
4. Inspect and account for items listed on the CMR.

5. Inspect the section calibration program.

REFERENCES:

1. CEOI Communications-Electronic Operating Instructions
 2. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
 3. MCO P4790.2 MIMMS Field Procedures Manual
 4. MCO P5215.17 Marine Corps Technical Publications System
 5. MCO P5600.31 Marine Corps Publication and Printing Regulations
 6. NAVMC 2761 Catalog of Publications
 7. TI 4733-15/21 Survey Instrument Calibration Program
 8. TM 4700-15-1/F Marine Corps Equipment Forms and Records
-

0803-RADR-2200: Plan RADAR operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETTS: Plt Cmdr, Radar Officer, Target Acquisition Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING:

CONDITION: Given a tactical scenario, commander's guidance and intent, a draft TAB B and Appendix 19, and a complete radar section with organic assets.

STANDARD: Developing a RADAR plan concurrently with the TAB B that supports the MAGTF scheme of maneuver.

PERFORMANCE STEPS:

1. Advise the commander on the current capabilities and limitations.
2. Issue a Warning Order.
3. Assess the situation based on Mission, Enemy, Terrain, Weather, Troops, Time, Space, And Logistics (METT-TS-L).
4. Collect friendly unit information.
5. Synchronize RADAR and Sensor operations.
6. Integrate communications networks and procedures.
7. Plan for logistics, security, and replacement of key assets.
8. Prioritize support.
9. Conduct Map and imagery reconnaissance.
10. Conduct Ground reconnaissance.
11. Wargame the RADAR plan.
12. Issue RADAR Plan as Exhibit 6 to Tab B.
13. Conduct continuous assessment of operations in order to draft Fragmentary Orders and RADAR Deployment Orders.

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCRP 3-16.1A Tactics, Techniques, and Procedures for Target Acquisition
3. MCWP 3-16.7 Marine Artillery Survey Operations

4. MCWP 5-1 Marine Corps Planning Process (MCP)
5. UNIT SOP Unit's Standing Operating Procedures

0803-RADR-2201: Supervise radar operations

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

MOS PERFORMING: 0803

BILLET: Plt Cmdr, Radar Officer, Target Acquisition Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical scenario, a radar plan, and a complete radar section with organic assets.

STANDARD: In accordance with the RADAR plan.

PERFORMANCE STEPS:

1. Supervise site selection.
2. Supervise the emplacement.
3. Supervise AN/TPQ-46 hostile operations.
4. Supervise AN/TPQ-46 friendly operations.
5. Supervise LCMR counterfire operations.
6. Supervise LCMR sense and warn operations.
7. Supervise radar operations in an Electronic Warfare (EW) environment.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. MCWP 3-16.1 Artillery Operations

0803-RADR-2202: Supervise the operations of the Target Processing Center (TPC)

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

MOS PERFORMING: 0803

BILLET: Plt Cmdr, Radar Officer, Target Acquisition Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical scenario, a radar plan, and a complete radar section with organic assets.

STANDARD: IAW the RADAR plan.

PERFORMANCE STEPS:

1. Supervise operations of the automated command and control systems.
2. Supervise target processing operations.
3. Supervise the radar teams.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
 2. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
 3. MCWP 3-16.1 Artillery Operations
-

0803-SEN-2100: Plan sensor operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Plt Cmdr, Sensor Officer, Target Acquisition Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical scenario, commander's guidance and intent, a draft TAB B and Appendix 19, and a complete sensor section with organic and attached assets.

STANDARD: Developing a Sensor plan concurrently with the TAB B that supports the MAGTF scheme of maneuver.

PERFORMANCE STEPS:

1. Advise the commander on capabilities and limitations.
2. Collect pertinent information based on Mission, Enemy, Terrain, Weather, Troops, Time, Space, and Logistics (METT-TS-L).
3. Collect friendly unit information to determine support requirements.
4. Conduct a map and imagery reconnaissance.
5. Issue a Warning Orders.
6. Conduct a ground reconnaissance.
7. Develop a meteorological sounding schedule.
8. Integrate communications networks and procedures.
9. Plan for logistics, security, and replacement of key assets.
10. Prioritize sensor support.
11. Synchronize RADAR and Sensor operations.
12. Wargame the Sensor Plan.
13. Issue the Sensor Plan as Exhibit 7 to Tab B.
14. Conduct continuous assessment of operations in order to draft Fragmentary Orders.

REFERENCES:

1. MCWP 3-16.1 Artillery Operations

CONDITION: Given a tactical scenario, a sensor plan, a Combat Operations Center, a Target Processing Center, and a complete sensor section with organic and attached assets.

STANDARD: IAW the sensor plan.

PERFORMANCE STEPS:

1. Supervise Sensor Support teams.
2. Supervise the maintenance of the common grid.
3. Verify computations.
4. Supervise dissemination of Sensor data.
5. Supervise acoustic operations.
6. Supervise mapping, charting, and geodesy operations.

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
 2. MCRP 3-16.1A Tactics, Techniques, and Procedures for Target Acquisition
 3. MCWP 3-16.7 Marine Artillery Sensor Operations
-

0803-SEN-2103: Supervise the conduct of survey operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Plt Cmdr, Sensor Officer, Target Acquisition Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical scenario, a sensor plan, and a complete sensor section with organic and attached assets.

STANDARD: Ensuring operations are completed accurately and able to keep abreast of the tactical situation.

PERFORMANCE STEPS:

1. Brief the survey plan.
2. Coordinate movements of Sensor Teams.
3. Supervise traverse operations.
4. Supervise intersection operations.
5. Supervise inertial navigation system operations.
6. Supervise GPSS operations.
7. Supervise astronomic observation operations.
8. Supervise conversion to common control operations.

REFERENCES:

1. MCWP 3-16.7 Marine Artillery Sensor Operations
-

0803-SEN-2104: Verify operator's adjustments on conventional sensor equipment

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

MOS PERFORMING: 0803

BILLETS: Plt Cmdr, Sensor Officer, Target Acquisition Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given equipment organic to a sensor section.

STANDARD: IAW tolerances listed in the references.

PERFORMANCE STEPS:

1. Verify operator's adjustments on survey theodolites.
2. Verify operator's adjustment on target sets.
3. Verify operator's adjustments on meteorological theodolites.
4. Verify parallelism adjustment on electronic distance measuring equipment.
5. Verify operator's adjustments on aiming circles.
6. Verify evacuation of inoperable equipment.

REFERENCES:

1. MCWP 3-16.7 Marine Artillery Sensor Operations
 2. TI 4733-15/21 Survey Instrument Calibration Program
 3. TM 9-1290-262-10 Operator's Manual, Aiming Circle, M2 and M2A2
-

0803-SEN-2105: Conduct reconnaissance

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

MOS PERFORMING: 0803

BILLETS: Plt Cmdr, Sensor Officer, Target Acquisition Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an operation or fragmentary order, a briefing on the overall operation, map of the area of operations, and a complete sensor section with organic and attached assets.

STANDARD: Rapidly enough to stay abreast of the tactical situation.

PERFORMANCE STEPS:

1. Verify friendly and enemy situation.
2. Coordinate the reconnaissance with maneuver units through the artillery headquarters.
3. Conduct a map and imagery reconnaissance.

4. Prepare equipment necessary to extend survey control.
5. Conduct route reconnaissance.
6. Conduct position reconnaissance of areas specified in the reconnaissance order.
7. Confirm suitability of artillery positions.
8. Conduct reconnaissance for supplementary positions as time permits.
9. Report any significant findings/deviations.

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 Sensor Operations
-

0803-SEN-2106: Supervise acoustic sensor operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Plt Cmdr, Sensor Officer, Target Acquisition Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical scenario, a sensor plan, and a complete sensor section with organic and attached assets.

STANDARD: IAW the Sensor Plan.

PERFORMANCE STEPS:

1. Supervise acoustic sensor planning.
2. Verify communications configuration.
3. Supervise site selection.
4. Supervise operations of Sensor Posts.
5. Supervise operations of Command Post.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
 2. MCWP 3-16.7 Marine Artillery Sensor Operations
 3. TM 11138A-OR Operators Manual Ground Counter Fire Sensor
-

0803-TGT-2700: Develop Tab E (Targeting) of Appendix 19 to Annex C to Operation Order

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Assistant Target Information Officer, Target Information Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical and operational scenario, a draft operations order, a draft Appendix 19, doctrinal and situational templates, maps and overlays, a targeting element, references, targeting automated systems, supporting intelligence updates and available Command and Control Communication.

STANDARD: Concurrently with the Appendix 19.

PERFORMANCE STEPS:

1. Participate in Operational Planning Team meetings.
2. Identify targeting battle rhythm; ensure it is nested with higher headquarters targeting battle rhythm and include it in TAB E.
3. Ensure all targeting related matters not discussed in the unit's Standard Operating Procedures are identified and explained in TAB E.
4. Develop Targeting Overlay based on Intelligence Preparation of the Battlefield (IPB) and Situation Template (SITEMP).
5. Develop Targeting Objectives.
6. Integrate Information Operations.
7. Integrate Electronics Warfare.
8. Develop a Candidate Target List for Targeting Board review and approval.
9. Develop exhibits to TAB E.
10. Ensure all Attack Guidance are reflected in TAB G and acceptable to digital fire support system protocols.
11. Mitigate hindrances to targeting developing from the Fire Support Coordination Plan.
12. Ensure all targeting products are vetted against current Rules of Engagement.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
3. MCWP 3-16.1 Artillery Operations
4. MCWP 3-43.3 MAGTF Fires

0803-TGT-2701: Conduct deliberate (D3A/Joint) targeting

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Assistant Target Information Officer, Target Information Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a higher headquarters order (warning/operations) or directive (mission/task), commander's guidance, references and appropriate fires C2 systems.

STANDARD: As a continuous process in support of the scheme of maneuver achieving the commander's intent.

PERFORMANCE STEPS:

1. Develop Commander's Fires objectives.
2. Integrate lethal and non-lethal fires.
3. Determine desired direct/indirect effects.
4. Develop Measures of effectiveness.
5. Conduct target development, validation, nomination, and prioritization.
6. Identify planned targets.
7. Conduct target value analysis.
8. Identify high value targets (HVT).
9. Create High value target list (HVTL).
10. Conduct capabilities analysis.
11. Identify high payoff targets and create high payoff target list.
12. Lead a target board or working group.
13. Conduct weaponeering.
14. Conduct Collateral Damage Estimation (CDE).
15. Identify Target Acquisition (TA) Tasking.
16. Develop Attack Guidance Matrix (AGM).
17. Identify Target Selection Standards (TSS).
18. Identify Requirements for Battle Damage Assessment (BDA).
19. Execute Attack Guidance on Targets In Support of the Targeting Plan.
20. Conduct Battle Damage Assessment (BDA).

REFERENCES:

1. FM 3-60 The Targeting Process
2. MCWP 3-16 Fire Support Coordination in the Ground Combat Element
3. MCWP 3-43.3 MAGTF Fires
4. JP 3-60 Joint Targeting

0803-TGT-2702: Supervise automated fire support system operations

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

MOS PERFORMING: 0803

BILLETS: Assistant Target Information Officer, Target Information Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given complete automated fire support systems and complete operations plans.

STANDARD: Fire support systems are operational and linked through organic communications assets.

PERFORMANCE STEPS:

1. Verify TAB G (MCFSS) to Appendix 19 (Fire Support) provides for the communications requirements of automated fire support systems.
2. Supervise AFATDS operations.
3. Supervise JADOCs operations.
4. Supervise C2PC/EMT operations.
5. Supervise PSS-SOF target mensuration only operations.

REFERENCES:

1. FM 3-60 The Targeting Process
 2. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
 3. MCWP 3-16.1 Artillery Operations
 4. MCWP 3.16E Fire Support Systems for MAGTF Operations
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0803-TGT-2703: Coordinate the Targeting Board in MAGTF and Joint Task Force (JTF) level

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Assistant Target Information Officer, Target Information Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical and operational scenario, an operations order, doctrinal and situational templates, maps and overlays, a targeting element, references, targeting automated systems, supporting intelligence updates/summaries, and available Command and Control Communication.

STANDARD: Per the reference, FM 3-60 Targeting Process.

PERFORMANCE STEPS:

1. Coordinate a sequenced Targeting Board.
2. Develop products in support of Targeting Board.
3. Nominate Targeting Objectives, air resource apportionment request, and Candidate Target List to Higher Headquarters for inclusion in the Joint Prioritized Target List and resource allocation via automated means.
4. Develop Targeting Objectives in support of Information Operations.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
 2. MCWP 3-16.1 Artillery Operations
 3. FM 3-60 Targeting Process
 4. MCWP 3-43.3 MAGTF Fires
 5. JP 3-60 Joint Targeting
-

0803-TGT-2704: Coordinate target synchronization in support of targeting objectives in MAGTF and JTF level

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Assistant Target Information Officer, Target Information Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical and operational scenario, an operations order and operation plan, doctrinal and situational templates, maps and overlays, a targeting element, references, targeting automated systems, supporting intelligence updates, multiple sensor/collection platforms, notional Air Tasking Order (ATO), and available Command and Control Communication.

STANDARD: Per the reference, MCWP 3-16A Targeting Process.

PERFORMANCE STEPS:

1. Prioritize and synchronize collection platforms tasking based on targeting objectives and resource limitations.
2. Access All Source Intel in order to develop target intelligence into targets.
3. Incorporate Electronic Warfare and Information Operations in the targeting Plan.
4. Develop and publish Target Synchronization Matrix.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. MCWP 3-16.1 Artillery Operations
3. FM 3-60 Targeting Process
4. MCWP 3-43.3 MAGTF Fires
5. JP 3-60 Joint Targeting

0803-TGT-2705: Participate in development of the Intelligence Preparation of the Battlespace (IPB)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Assistant Target Information Officer, Target Information Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the commander's guidance, a tactical scenario, an organization for combat, S-2 Section, an operations order, maps, references, doctrinal templates, and overlays.

STANDARD: Developing IPB products necessary for conduct of the targeting process.

PERFORMANCE STEPS:

1. Participate in IPB with intelligence section during operational planning.
2. Identify probable enemy courses of action based on the Modified Combined Obstacle overlay and Doctrinal Template.
3. Assist in the production of Situational and Event Templates.
4. Evaluate probable enemy courses of action.
5. Identify potential high pay-off targets.
6. Assess enemy capability.
7. Coordinate the development of the intelligence collection plan and synchronize it with the fire support target acquisition plan.
8. Ensure TAIs correspond to Named Areas of Interest (NAIs) and have assigned sensors.
9. Ensure TAIs are included in TAB E (Targeting) of Appendix 19 and are disseminated to all major subordinate commands.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
 2. MCWP 3-16.1 Artillery Operations
 3. FM 3-60 Targeting Process
 4. MCRP 2-12A Intelligence Preparation of the Battlespace
-

0803-TGT-2706: Conduct tactical dynamic targeting and time sensitive targeting in MAGTF and JTF level

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Assistant Target Information Officer, Target Information Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical and operational scenario, an operations order and operation plan, doctrinal and situational templates, maps and overlays, a targeting element, references, targeting automated systems, supporting intelligence updates, and available Command and Control Communication.

STANDARD: Per the reference, FM 3-60 Targeting Process.

PERFORMANCE STEPS:

1. Coordinate effects on a High Payoff Target of opportunity.
2. Coordinate effects on a designated Time Sensitive Target (TST).

3. Conduct Weapon Target pairing.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
 2. MCWP 3-16.1 Artillery Operations
 3. FM 3-60 Targeting Process
 4. MCWP 3-43.3 MAGTF Fires
 5. JP 3-60 Joint Targeting
-

0803-TGT-2707: Manage target lists

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Assistant Target Information Officer, Target Information Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an automated system, activated and with known point and target lists and fire plans.

STANDARD: Per the reference, FM 3-60 Targeting Process.

PERFORMANCE STEPS:

1. Create a Target List.
2. Search the Target Database or Query Target Data from another automated system.
3. Receive and Disseminate the MIDB.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
 2. MCWP 3-16.1 Artillery Operations
 3. FM 3-60 Targeting Process
 4. MCWP 3-43.3 MAGTF Fires
 5. JP 3-60 Joint Targeting
-

0803-TGT-2708: Recommend employment of target acquisition assets

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Assistant Target Information Officer, Target Information Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the commander's guidance, a tactical scenario and operations order, organization for combat, maps, overlays, references, and assigned Command and Control automated systems.

STANDARD: Per the reference, FM 3-60 Targeting Process.

PERFORMANCE STEPS:

1. Advise the commander of the capabilities and limitations of all target acquisition assets.
2. Recommend positioning of target acquisition assets.
3. Recommend the area of coverage for target acquisition assets to support the Scheme of Maneuver and Scheme of Fires.
4. Recommend radar zones.

REFERENCES:

1. MCRP 3-16.1A Tactics, Techniques and Procedures for Field Artillery Target Acquisition
2. MCWP 3-16.1 Artillery Operations
3. FM 3-60 Targeting Process

0803-TGT-2709: Conduct Target Mensuration Only (TMO) procedures

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0803

BILLETS: Assistant Target Information Officer, Target Information Officer

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, digital communications with higher, adjacent and supporting units, and an automated system with NGA validated TMO software.

STANDARD: Determining target location within specifications listed in the Marine Corps TMO CONOPS.

PERFORMANCE STEPS:

1. Ensure NGA validated mensuration software is properly installed on an automated system.
2. Ensure the most up to date imagery is available on the automated system.
3. Receive a grid and target description from an observer.
4. Conduct mensuration of target data.
5. Transmit refined target data to appropriate agency.

REFERENCES:

1. MCRP 3-16.2 Techniques and Procedures for Fire Support Coordination
2. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller
3. TM 10938B-OR TLDHS Technical Manual

ARTILLERY T&R MANUAL

CHAPTER 12

MOS 0811 INDIVIDUAL EVENTS

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ARTILLERY T&R MANUAL

CHAPTER 12

0811 MOS INDIVIDUAL EVENTS

12000. PURPOSE. This chapter details the individual events that pertain to the community. These events are linked to a service-level Mission Essential Tasks (MET). This linkage tailors individual training for the selected MET. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

12001. 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 or military occupational field (0811). The second four digits represent the functional or duty area. The last four digits represent the level, and identifier number of the event. Every individual event has an identifier number from 000 to 999.

12002. INDEX OF 1000-LEVEL EVENTS

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12003. 1000-LEVEL EVENTS

0811-GUNS-1001: Perform Advance Party operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given appropriate advance party gear, an azimuth of fire, and an aiming circle operator (OFC).

STANDARD: Ensuring tape and stakes are emplaced within +/- 20 mils of the azimuth of fire and correctly recording initial lay data.

PERFORMANCE STEPS:

1. (DFCS) Mark howitzer position with position stake.
2. (DFCS) Provide security until howitzer is in position.
3. (OFC) Record the azimuth of fire and emplace gun-guide tape and stakes using a compass.
4. (OFC) Establish communication.
5. (OFC) Emplace pantel marking stake and record initial deflection.
6. (OFC) Assist in measuring distance (subtense) and vertical angle from howitzer to aiming circle.
7. (OFC) Perform reconnaissance and select route of track plan.
8. (OFC) Receive howitzer at pickup point and guide into position.

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Performance steps may vary according to unit SOP.

0811-GUNS-1004: Emplace the collimator

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an emplaced howitzer, and sandbags.

STANDARD: Approximately 9 to 12 meters from the pantel within one (1) minute.

PERFORMANCE STEPS:

1. Set the collimator up, pointing one leg towards pantel.

2. Place cover under tripod with closed end pointed at muzzle of howitzer.
3. Push feet of legs into ground to stabilize the collimator and place a sandbag on each leg.
4. Center azimuth adjustment screw.
5. Properly line up front and rear sights with lens of pantel.
6. Ensure cross level/bubble is between the two outer red lines in vial and does not touch two outer red lines.
7. Finger tighten cross level clamping knob to immobilize the optical assembly.
8. Announce Gunner.
9. Rotate azimuth adjustment screw left and right, as directed by the gunner.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17413 Field Training Area

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts at performance step #1.
2. Time stops when the number 3 cannoneer announces Gunner.
3. When using DFCS, this task will be performed during position improvement.

0811-GUNS-1005: Emplace the aiming posts

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 month

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an emplaced howitzer and a gunner on the pantel.

STANDARD: 150 meters for the far post and 75 meters for the near post.

PERFORMANCE STEPS:

1. Assemble the aiming posts.
2. Follow direction from the gunner's hand and arm signals.

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 17413 Field Training Area

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: If far aiming post cannot be placed 150 meters from the Howitzer, place it as far away as possible; then place near post one half the distance.

0811-GUNS-1006: Perform prefiring checks

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an emplaced howitzer.

STANDARD: Identifying discrepancies to the Section Chief.

PERFORMANCE STEPS:

1. Look through tube to ensure there are no obstructions.
2. Ensure breech and PFM witness marks are aligned.
3. Ensure oil index pin is flush or slightly indented on Recoil Accumulator.
4. Ensure howitzer has 5 points of contact with the ground.

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

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

0811-GUNS-1007: Employ proper ammunition storage procedures

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an ammunition vehicle, required ammunition, and adequate materials for dunnage.

STANDARD: Ensuring storage on vehicle is at least 2 inches off the bed, 6 inches off the deck with 18 inches of overhead and is separated by type, lot, and weight zone.

PERFORMANCE STEPS:

1. Store and secure ammunition in the vehicle to prevent movement in any direction.
2. Store ammunition in the field, separating ammunition by type, lot, and weight zone.
3. Ensure there is adequate dunnage underneath ammunition.
4. Protect ammunition from direct sunlight and weather conditions.

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D505 Projectile, 155mm Illuminating M485A1	2 projectiles per Marine
D544 Projectile, 155mm High Explosive M107	2 projectiles per Marine
D550 Projectile, 155mm Smoke White Phosph	2 Primers per Marine
DA12 Charge, Propellant 155mm MACS M231	2 charges per Marine
N291 Fuze, Proximity M732A2 Sub f/NA09	2 fuzes per Marine
N340 Fuze, Point Detonating M739/M739A1	2 fuzes per Marine
N523 Primer, Percussion M82	6 Primers per Marine
NA09 Fuze, Multi-Option M782	2 fuzes per Marine
NA15 Fuze, Electronic Time M767A1	2 fuzes per Marine
NA17 Fuze, Electronic Time M762A1	2 fuzes per Marine

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. This task does not apply to combat loading of ammunition. DODICs listed in ammunition table reflect a requirement if this task was trained as a stand-alone task. This task is normally performed and evaluated

during collective live-fire training. Dummy/inert ammunition may be used for non-live-fire training/simulation.

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

0811-GUNS-1009: Operate the M94 Muzzle Velocity System (MVS)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an emplaced howitzer.

STANDARD: Recording and reporting all muzzle velocities to the FDC.

PERFORMANCE STEPS:

1. Check for obvious defects.
2. Mount the transceiver.
3. Connect all applicable cables.
4. Perform the System Self-tests.
5. Input appropriate data.
6. Record muzzle velocities.

REFERENCES:

1. MCTM 09814A-14&P M94 Muzzle Velocity System

SUPPORT REQUIREMENTS:

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 equipment weighing approximately 100 lbs repetitiously in a short time frame.

0811-GUNS-1010: Lay the howitzer for initial direction of fire (DFCS)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a howitzer in a firing position and a determined method of lay.

STANDARD: To an accuracy of 0 mils.

PERFORMANCE STEPS:

1. Direct the crew to shift the howitzer.
2. Commands "DROP" when CMD and ACTL AZ on gunner's display are within 10 mils.
3. Align CMD and ACTL AZ until 0 mils is obtained.

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 17650 Field Artillery Direct Fire Range
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. DISTANT LEARNING PRODUCT(S): 0819, M777A2 Howitzer Section Chief
2. When reciprocal laying another howitzer the gunner on the laid howitzer will compute all data and act as the aiming circle operator. The non laid howitzer will perform the same performance steps as listed.
3. Ensure the reading is converted using LARS (Left add, Right subtract).

0811-GUNS-1011: Respond to all fire commands

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a fire mission and Record of Missions Fired (DA 4513).

STANDARD: Filling out the DA 4513 accurately and legibly.

PERFORMANCE STEPS:

1. Respond to the 11 fire command elements.
2. State firing reports.
3. Respond to planned targets.
4. Complete the Record of Missions Fired (DA 4513).

REFERENCES:

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

0811-GUNS-1013: Prepare separate-loading ammunition for firing

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the components of a complete round, appropriate fuze wrenches and fuze setters, and a fire command.

STANDARD: To be inspected by the Section Chief.

PERFORMANCE STEPS:

1. Inspect ammunition.
2. Select appropriate projectile.
3. Select appropriate propellant and charge.
4. Select appropriate fuze.
5. Set appropriate time setting, if applicable.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2
2. TM 9-1290-210-12&P Operator & Unit Maintenance Manual for Fuze Setter: Portable, Inductive, Artillery, M1155 (PIAFS)
3. TM 9-1290-211-13&P Operator & Unit Maintenance Manual for Enhanced Fuze Setter: Portable, Inductive, Artillery, M1155A1 (E-PIAFS)

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D505 Projectile, 155mm Illuminating M485A1	2 projectiles per Marine
D544 Projectile, 155mm High Explosive M107	2 projectiles per Marine
D550 Projectile, 155mm Smoke White Phosph	2 projectiles per Marine
DA12 Charge, Propellant 155mm MACS M231	6 charges per Marine

N291 Fuze, Proximity M732A2 Sub f/NA09	2 fuzes per Marine
N340 Fuze, Point Detonating M739/M739A1	2 fuzes per Marine
N523 Primer, Percussion M82	6 Primers per Marine
NA09 Fuze, Multi-Option M782	2 fuzes per Marine
NA15 Fuze, Electronic Time M767A1	2 fuzes per Marine
NA17 Fuze, Electronic Time M762A1	2 fuzes per Marine

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. DODICs in quantities listed in ammunition table reflect amount and type necessary to train the task as a stand-alone task. This task is normally performed and evaluated during collective live-fire training. Dummy/inert/ammunition mock-ups may be used for non-live-fire training.
2. Physical Constraints: Marines are required to lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.

0811-GUNS-1015: Fire a prepared round

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an emplaced howitzer, section equipment, a prepared round, and a fire command.

STANDARD: Following all safety precautions and directions from the Section Chief.

PERFORMANCE STEPS:

1. Verify bore clear.
2. Load projectile and propellant.
3. Close breech and verify witness marks aligned.
4. Prime and fire the howitzer on command.

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

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D505 Projectile, 155mm Illuminating M485A1	2 projectiles per Marine
D544 Projectile, 155mm High Explosive M107	2 projectiles per Marine
D550 Projectile, 155mm Smoke White Phosph	2 projectiles per Marine
DA12 Charge, Propellant 155mm MACS M231	6 charges per Marine
N291 Fuze, Proximity M732A2 Sub f/NA09	2 fuzes per Marine
N340 Fuze, Point Detonating M739/M739A1	2 fuzes per Marine
N523 Primer, Percussion M82	6 Primers per Marine
NA09 Fuze, Multi-Option M782	2 fuzes per Marine
NA15 Fuze, Electronic Time M767A1	2 fuzes per Marine
NA17 Fuze, Electronic Time M762A1	2 fuzes per Marine

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. Dummy/inert/ammunition mock-ups may be used for non-live-fire training.
2. Physical Constraints: Marines are required to lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.

0811-GUNS-1016: Take immediate action for misfire

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an emplaced howitzer, a misfire situation involving a cold tube, a warm tube, a warm tube in hot weather, or a hot tube, and the reference.

STANDARD: Perform immediate actions per the reference MCTM 10407C-OR/1.

PERFORMANCE STEPS:

1. Attempt to fire two more times.
2. Announce misfire.
3. Insert breech crank locking pin.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

0811-GUNS-1020: Perform Preventive Maintenance Checks and Services (PMCS)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an emplaced howitzer requiring operational checks and services for all intervals of maintenance, section gear, maintenance form, appropriate lubricants, and the reference.

STANDARD: Following all safety precautions and warnings, correcting or reporting all defects.

PERFORMANCE STEPS:

1. Perform equipment checks and services.
2. Perform authorized maintenance inspections.
3. Maintain the firing mechanism.
4. Maintain the breech.
5. Disassemble and assemble the magazine assembly.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Inspections occur at regular intervals to avoid equipment damage and/or failure (before, during, and after firing operations; and on a weekly and monthly basis).

12004. INDEX OF 2000-LEVEL EVENTS

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12005. 2000-LEVEL EVENTS

0811-GUNS-2202: Lay the howitzer for initial direction of fire (OFC)

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

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer in a firing position and a determined method of lay.

STANDARD: To accuracy of 0 mils or +/- 20 mils using the M2 compass.

PERFORMANCE STEPS:

1. Direct the crew to shift the howitzer until proper sight picture is

- obtained.
2. Announce, "Number (so and so) aiming point identified."
 3. Command crew to drop howitzer and correct sight picture.
 4. Respond to commands until howitzer is laid on the azimuth of fire.
 5. Record reading from the azimuth counter on the gunners reference card.

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
Facility Code 17650 Field Artillery Direct Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. DISTANT LEARNING PRODUCT(S): 0819, M777A2 Howitzer Section Chief
2. When reciprocal laying another howitzer the gunner on the laid howitzer will compute all data and act as the aiming circle operator. The non laid howitzer will perform the same performance steps as listed.
3. Ensure the reading is converted using LARS (Left add, Right subtract).

0811-GUNS-2204: Align the collimator

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer laid on the azimuth of fire, and a cannoneer.

STANDARD: To an accuracy of 0 mils within one minute of the howitzer being laid.

PERFORMANCE STEPS:

1. Sight through the eyepiece of the pantel and turn the azimuth knob until a suitable place to locate the collimator is sighted.
2. Command the #3 cannoneer to fine tune until proper sight picture is obtained.
3. Announce, "SET."
4. Engage deflection clutch.

5. Record deflection from the azimuth counter on gunner's reference card.

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 17650 Field Artillery Direct Fire Range
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts: When the #3 cannoneer announces "Gunner." Time stops: When deflection to collimator is recorded on gunner's reference card.
2. DISTANT LEARNING PRODUCT(S): 0819, M777A2 Howitzer Section Chief.

0811-GUNS-2205: Align the aiming posts

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer laid on the azimuth of fire and a cannoneer.

STANDARD: Ensuring no displacement is present in the reticle pattern within 3 min.

PERFORMANCE STEPS:

1. Rotate pantel to far aiming post.
2. Align aiming posts by directing cannoneer with standard hand and arm signals.
3. Verify correct sight picture.
4. Record deflection from azimuth counter to aiming posts on the gunner's reference card.

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
Facility Code 17650 Field Artillery Direct Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: DISTANT LEARNING PRODUCT(S): 0819, M777A2
Howitzer Section Chief.

0811-GUNS-2206: Prepare gunner's reference card

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer.

STANDARD: To accurately and legibly reflect data.

PERFORMANCE STEPS:

1. Record initial lay data.
2. Record standard data.
3. Record priority target data.
4. Record position corrections data.

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
2. 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
Facility Code 17650 Field Artillery Direct Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: The gunner's reference card is filled in promptly as pertinent information becomes available.

0811-GUNS-2207: Verify boresight of the panoramic telescope using the alignment device

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer, an alignment device, and a cannoneer.

STANDARD: Ensuring the azimuth counter indicates 4800 +/- 0.5 mils, within 1 minute.

PERFORMANCE STEPS:

1. Verify the sight picture.
2. Turn azimuth knob until a 4800 mil reading is obtained on azimuth counter.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

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. If the howitzer is out of boresight, try two other alignment devices from adjacent howitzers.
 2. Time starts after completion of recording the deflection to the aiming point. Time stops when proper sight picture is obtained.
-

0811-GUNS-2209: Lay howitzer for deflection using M100-series sight

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer laid on the azimuth of fire, an aiming point (collimator, aiming posts, distant aiming point) established, and a fire command.

STANDARD: Using proper commands and to an accuracy of 0 mils within 15 seconds.

PERFORMANCE STEPS:

1. Apply announced deflection to the pantel.
2. Traverse cannon tube to obtain proper sight picture.
3. Level bubbles and recheck sight picture, announce "Ready."

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

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. DISTANT LEARNING PRODUCT(S): 0819, M777A2 Howitzer Section Chief
2. Time starts when deflection is announced. Time stops when "Ready" is announced.

0811-GUNS-2210: Refer the piece

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer laid on the azimuth of fire, a command to refer, and an aiming point.

STANDARD: Using proper commands, and ensuring the correct deflection to the aiming point is read within 15 seconds.

PERFORMANCE STEPS:

1. Verify the sight picture.
2. Read the deflection from the azimuth counter.
3. Announce, "Number _____, aiming point identified, deflection (amount)."

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 17650 Field Artillery Direct Fire Range
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts upon receipt of command "Battery refer aiming point this instrument."
2. Time stops when the referred deflection is announced.

0811-GUNS-2212: Conduct direct fire

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer in a firing position, a target, and a fire command.

STANDARD: Within 2 minutes (daylight) and 3 minutes (darkness) after the initial fire command.

PERFORMANCE STEPS:

1. Set 3200 on the azimuth counter and ensure the correction counter reads zero.
2. Turn azimuth knob bar to DIRECT fire position.
3. Set off the announced lead.
4. Announce, "FIRE", after the assistant gunner announces "SET."
5. Continue to lay and fire on target until it is destroyed or until a subsequent fire command is issued.

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	3 projectiles 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 primers per Section
NA15 Fuze, Electronic Time M767A1	3 fuzes per Section

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. Time fuzes are intended to be utilized to conduct "killer junior" missions.

0811-GUNS-2213: Lay the howitzer for quadrant using the fire control quadrant

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

MOS PERFORMING: 0811

BILLETS: Assistant Gunner

GRADES: LCPL, CPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer in a firing position, and a fire command.

STANDARD: Ensuring an accuracy of 0 mils within 30 seconds after the command is given or 45 seconds for high angle mission.

PERFORMANCE STEPS:

1. Apply announced quadrant.
2. Elevate or depress cannon tube to center bubble.
3. Level cross level vial.
4. Announce "Set."

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

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. DISTANT LEARNING PRODUCT(S): 0819, M777A2 Howitzer Section Chief.
 2. Time starts when quadrant is announced. Time stops when "Set" is announced.
-

0811-GUNS-2214: Lay for quadrant using the Gunner's Quadrant

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer in a firing position and a fire command that includes use of the gunner's quadrant.

STANDARD: Ensuring an accuracy of 0 mils within 30 seconds for low angle and 45 seconds for high angle.

PERFORMANCE STEPS:

1. Set the announced quadrant on the gunner's quadrant.
2. Place the gunner's quadrant on the quadrant seats with the line of fire arrow toward the muzzle of the tube.
3. Direct the Assistant Gunner to elevate or depress the tube until the bubble is level.
4. Announce "SET" when prepared.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

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. DISTANT LEARNING PRODUCT(S): 0819, M777A2 Howitzer Section Chief.
 2. Time starts when quadrant is announced. Time stops when "Set" is announced.
-

0811-GUNS-2215: Measure the quadrant using the Fire Control Quadrant

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Assistant Gunner

GRADES: CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer in a firing position elevated to an unknown quadrant.

STANDARD: To an accuracy of 0 mils.

PERFORMANCE STEPS:

1. Center the bubble in the elevation vial without moving the tube.
2. Center the bubble in the cross level vial.
3. Announce the quadrant from the elevation counter.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: DISTANT LEARNING PRODUCT(S): 0819, M777A2
Howitzer Section Chief.

0811-GUNS-2216: Boresight the direct fire elbow telescope using a Distant Aiming Point

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: LCPL, CPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer in a firing position and section equipment.

STANDARD: To an accuracy of 0 mils.

PERFORMANCE STEPS:

1. Insert boresight disks.
2. Sight in on Distant Aiming Point (DAP).
3. Align muzzle on Distant Aiming Point (DAP).
4. Level bubbles.
5. Adjust 0 elevation line of the elbow telescope on Distant Aiming Point (DAP) using the elevation adjusting screw.
6. Repeat STEPS 2-5 if elevation is misaligned by more than 0.5 mils.
7. Verify sight picture.
8. Remove boresight disks.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. DISTANT LEARNING PRODUCT(S): 0819, M777A2 Howitzer Section Chief.
2. Muzzle crosshairs may be used in lieu of muzzle boresight discs.

0811-GUNS-2217: Sight on a target using the direct fire elbow telescope

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Assistant Gunner

GRADES: LCPL, CPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer in a firing position, a fire command, and a target for direct fire.

STANDARD: Within 60 seconds after the initial command is given and within 30 seconds after subsequent fire commands until the end of the mission.

PERFORMANCE STEPS:

1. Center the cross-level bubble.
2. Set the appropriate mil line on the center mass of the target by elevating or depressing the tube.

3. Check site picture.
4. Repeatedly announce, "SET", until round is fired.
5. Subsequent commands, repeat steps 1-5.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: DISTANT LEARNING PRODUCT(S): 0819, M777A2
Howitzer Section Chief.

0811-GUNS-2300: Supervise the emplacement of a howitzer (OFC)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer, section, equipment and an aiming point.

STANDARD: Utilizing the memory aid TLABSPAP.

PERFORMANCE STEPS:

1. T - Tube and all cables are disconnected from the prime mover.
2. L - Lay the weapon.
3. A - Emplace the Aiming Point (collimator).
4. B - Boresight verified or performed.
5. S - Second circle. Verification of lay performed with a second circle.
6. P - Prefire checks on weapon system performed.
7. A - Ammunition prepared.
8. P - Position improvement.

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:

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

0811-GUNS-2301: Supervise the emplacement of a howitzer (DFCS)

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 1 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer, section, equipment and an aiming point.

STANDARD: Utilizing the memory aid TLPAP.

PERFORMANCE STEPS:

1. T- Tube and all cables are disconnected from the prime mover.
2. L- Lay using DFCS.
3. P- Pre-fire checks on weapon performed.
4. A- Ammunition preparation.
5. P- Position improvement.

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:

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

0811-GUNS-2302: Measure the site to crest

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer and a measurable crest.

STANDARD: To the nearest mil and piece to crest range within 100 meters of the actual location.

PERFORMANCE STEPS:

1. Measure the angle of site-to-crest.
2. Measure piece-to-crest range by, subtense, tape (measure), map, pacing, or estimation by observing.
3. Report angle of site to crest and piece to crest range to the XO.

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:

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

0811-GUNS-2303: Prepare a howitzer range card

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: LCPL, CPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer, and appropriate firing tables.

STANDARD: Accurately and legibly, per the reference MCWP 3-16.3.

PERFORMANCE STEPS:

1. Sketch the sector of fire and likely avenues of approach.
2. Ensure data section lists necessary data to engage targets.

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

0811-GUNS-2304: Determine whether a howitzer is safe to fire

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer, a safety "T", a series of fire commands.

STANDARD: Ensuring the command, "CHECK FIRING," is given when unsafe conditions exist.

PERFORMANCE STEPS:

1. Verify data using safety Ts.
2. Verify that the deflection and quadrant are set correctly.
3. Verify charge and lot on projectile and propellant.
4. Verify fuze and fuze setting.
5. Verify all safe conditions exist according to Joint Reg Safety SOP.
6. Command, "CHECK FIRING," if any unsafe condition exists.

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

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. This task is normally performed and evaluated during collective live-fire training. Dummy/inert ammunition may be used for non-live-fire training/simulation.
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.

SIMULATION: YES

0811-GUNS-2305: Supervise the preparation of ammunition for firing

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given the components of a complete round and a fire command.

STANDARD: Ensuring authorized ammunition combinations and handling procedures are used.

PERFORMANCE STEPS:

1. Identify the four components of a complete round.
2. Identify proper shell/fuze combination from fire commands.
3. Identify proper propellant/projectile combination from fire commands.
4. Verify the proper setting of Fuze Time and Variable Time.
5. Ensure proper ammunition handling procedures are used.
6. Ensure only authorized shell/fuze combinations are prepared for firing.

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:

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

0811-GUNS-2307: Conduct indirect fire missions

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer, section, equipment, and a fire command.

STANDARD: Ensuring the howitzer is ready to fire within 30 seconds for low angle and 45 seconds for high angle.

PERFORMANCE STEPS:

1. Section Chief verifies data on the Chief of Section Display (CSD)/DA form 4513.
2. Verifies proper selection, setting, and loading of ammunition.
3. Executes fire mission per the fire commands.

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:

RANGE/TRAINING AREA:

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Time Starts: Quadrant elevation is announced by the section chief. Time stops when howitzer is ready to fire.

0811-GUNS-2308: Lay on priority target

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer and priority target data.

STANDARD: At the completion of each mission.

PERFORMANCE STEPS:

1. Ammunition components are inspected.
2. Propellant is prepared and segregated.
3. Projectile and fuze are prepared and segregated.
4. Record priority target data on gunner's reference card.

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
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: Physical Constraints: Marines are required to lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.

0811-GUNS-2309: Prepare howitzer to fire outside of normal traverse limits (OFC)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer, section, equipment, and fire commands.

STANDARD: Within 3 minutes in daylight and 6 minutes in darkness.

PERFORMANCE STEPS:

1. Ensure gunner properly switches aiming points.
2. Apply deflection from FDC to pantel.
3. Command "Shift, muzzle right (or left)."
4. Ensure gunner obtains correct sight picture on aiming point and command, "READY, DROP."
5. Direct emplacement of weapon.
6. Continue to execute the fire mission per fire commands.

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
2. 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. Physical Constraints: Marines are required to shift howitzer and lift multiple projectiles in excess of 100 lbs repetitiously in a short time frame.
2. DISTANT LEARNING PRODUCT(S): 0819, M777A2 Howitzer Section Chief.

0811-GUNS-2311: Compute data for Sweep and Zone fire mission

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer section and fire commands.

STANDARD: Ensuring correct number of deflection, quadrants, and rounds per the fire command.

PERFORMANCE STEPS:

1. Determine deflections to be fired for sweep fire.
2. Determine the quadrants to be fired for zone fire.
3. Determine the order in which to fire.
4. Determine the total rounds to be fired.

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

0811-GUNS-2313: Engage targets with howitzer in direct fire role

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer, section, equipment and a designated target.

STANDARD: For armor/material with maximum of 3 rounds (daylight in 2 minutes/darkness in 3 minutes), and for personnel with maximum 2 rounds (daylight in 1 minute and darkness in 1.5 minutes).

PERFORMANCE STEPS:

1. Issues fire order for direct fire mission.
2. Obtains a hit against an armor/material target, within the designated time after the target is identified, with a maximum of three rounds.
3. Howitzer range card is utilized.
4. Brings effective fire on personnel type targets, within the designated time after the target is identified, with a maximum of two rounds.

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	3 projectiles 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 primers per Section
NA15 Fuze, Electronic Time M767A1	3 fuzes per Section

RANGE/TRAINING AREA:

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

MISCELLANEOUS:

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

0811-GUNS-2317: Supervise securing of howitzer ammunition in preparation for transport

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an ammunition vehicle and a load plan.

STANDARD: Ensuring ammunition is safely loaded and secured.

PERFORMANCE STEPS:

1. Ensure ammunition is loaded IAW the references.
2. Ensure adherence to safety precautions.
3. Direct the crew to correct any errors observed.

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
2. NAVSEA SWO20-AF-ABK-010 Motor Vehicle Driver and Shipping Inspector's Manual for Ammunition, Explosives and Related Hazardous Materials

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
D529 Projectile, 155mm High Explosive M795	8 projectiles per Section
DA12 Charge, Propellant 155mm MACS M231	8 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 primers per Section
NA15 Fuze, Electronic Time M767A1	8 fuzes per Section

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

0811-GUNS-2318: Mount a machinegun on a prime mover

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 4 months

MOS PERFORMING: 0811

GRADES: CPL, SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a prime mover with a ring mount, a MK 64 (universal) mount with appropriate adapters and a machinegun (M240B, M2, or MK19).

STANDARD: Ensuring it is secured for movement.

PERFORMANCE STEPS:

1. Connect the MK 64 mount to ring mount.
2. Select and emplace the appropriate adapter (if required).
3. Mount machinegun on MK 64 mount.
4. Mount appropriate ammunition tray.
5. Dismount the machinegun.

REFERENCES:

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
 2. MCWP 4-11.3 Transportation Operations
-

0811-GUNS-2319: Establish standard angle

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer that has been boresighted, a pre-tested gunner's quadrant, section equipment, and the reference.

STANDARD: Within an accuracy of 1/4 mil.

PERFORMANCE STEPS:

1. Ensure cannon tube is at 100 mils.
2. Correctly position pantel and ensure correct sight picture.
3. Read and record the standard angle from the azimuth counter.
4. Verify pantel boresight using the M154 alignment device.
5. Perform steps 2-4 until three consecutive readings at 4800 (+/- 0.5 mils) is achieved.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

0811-GUNS-2320: Test the gunner's quadrant

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer and a gunner's quadrant.

STANDARD: To an accuracy of +/- 0.4 mils.

PERFORMANCE STEPS:

1. Perform the micrometer test.
2. Perform end for end test.
3. Perform the vertical shoe test.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Micrometer test: If bubble does not re-center, turn into unit maintenance.

0811-GUNS-2323: Adjust the equilibrators

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer with the equilibrators out of adjustment and appropriate tools.

STANDARD: Ensuring equal effort is required to elevate or depress the cannon tube.

PERFORMANCE STEPS:

1. Determine whether equilibrators are in adjustment by elevating and depressing the tube.
2. Ensure the equilibrator is at 90 degrees to the equilibrator post.
3. Ensure howitzer is on level ground and at 100 mils.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

0811-GUNS-2324: Boresight the howitzer

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 4 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer that 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 within 3 minutes with a DAP and 5 minutes with an aiming circle.

PERFORMANCE STEPS:

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

0811-GUNS-2325: Measure the quadrant using the gunner's quadrant

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer with the tube elevated to an unknown quadrant and a tested gunner's quadrant.

STANDARD: Ensuring measurement to the nearest whole mil.

PERFORMANCE STEPS:

1. Place the gunner's quadrant on the quadrant seats.
2. Center the bubble in the cross level vial.
3. Center the bubble on gunner's quadrant.
4. Read the quadrant to the nearest whole mil from the gunner's quadrant.

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

0811-GUNS-2326: Perform fire control alignment tests

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer, section and equipment.

STANDARD: Ensuring the on-carriage fire control equipment and the gunner's quadrant are serviceable and within authorized tolerances.

PERFORMANCE STEPS:

1. Prepare the howitzer.
2. Conduct the tests of the on-carriage fire control equipment.
3. Determine and record standard angle.
4. Notify organizational maintenance if any alignment device exceeds the tolerance

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

0811-GUNS-2327: Operate the Muzzle Velocity System (MVS)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer.

STANDARD: Recording and reporting all muzzle velocities to the FDC.

PERFORMANCE STEPS:

1. Check for obvious defects.
2. Mount the transceiver.
3. Connect all applicable cables.
4. Perform the System Self-tests.
5. Input appropriate data.
6. Record muzzle velocities.

REFERENCES:

1. MCTM 09814A-14&P M94 Muzzle Velocity System

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Marines are required to lift equipment weighing approximately 100 lbs repetitiously in a short time frame.

0811-GUNS-2332: Prepare a howitzer section for helicopter displacement

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer section, equipment, and a warning order.

STANDARD: Ensuring all personnel and equipment are identified in accordance with the reference, MCRP 4-11.3E/FMFRP 5-31 VOL 1.

PERFORMANCE STEPS:

1. Brief personnel.
2. Identify necessary individual gear.
3. Identify necessary section gear.
4. Assign personnel to carry section gear.
5. Ensure individual weapons are properly handled.
6. Determine sequence of embark/debark.

REFERENCES:

1. MCRP 4-11.3E/FMFRP 5-31 VOL 1 Multi-Service Helicopter Sling Load: Basic Ops and Equipment
2. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

0811-GUNS-2335: Initialize Digital Fire Control System (DFCS)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 month

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer and a known point.

STANDARD: Ensuring the operational main menu screen displays "OK TO SHOOT OR MOVE."

PERFORMANCE STEPS:

1. Connect all necessary cables.
2. Turn on system.
3. Update necessary fields.

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

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

0811-GUNS-2336: Process fire missions using Digital Fire Control System (DFCS)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 month

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced howitzer, digital or voice fire mission.

STANDARD: Ensuring accurate data is prepared for firing.

PERFORMANCE STEPS:

1. Acknowledge receipt of fire mission.
2. Announce the fire commands to the section.
3. Follow procedures for specific mission type.
4. Acknowledge all alarms and messages from the Chief of Section Display (CSD).

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

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. Manual Fire Mission is used when the DFCS communications are OUT. The manual procedures for a fire mission are the same as a digital fire mission, except a manual entry is required.
 2. Specific processing for different types of missions are dependent on mission type (When Ready, AMC, DNL, PPF, PGM, Excalibur).
-

0811-GUNS-2337: Conduct manual move order (DFCS)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an initialized howitzer and a movement order.

STANDARD: In order to support assigned mission.

PERFORMANCE STEPS:

1. Update manual move order entries.
2. Confirm range to destination using available resources.
3. Navigate to destination.

REFERENCES:

1. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2

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

0811-GUNS-2402: Declinate the aiming circle

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 month

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an area free of magnetic attractions and a surveyed declination station.

STANDARD: Recording the declination constant, operator's initials, and date performed on the notation pad on the base of the aiming circle.

PERFORMANCE STEPS:

1. Set up and level the aiming circle over declination station.
2. Record the declination constant for two or more azimuth markers.
3. Compare the declination constants (Must agree within 2 mils).

4. Determine the mean and express to the nearest whole mil.

REFERENCES:

1. 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

0811-GUNS-2403: Declinate the M2 compass

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 month

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a surveyed declination station free from magnetic attractions.

STANDARD: Reading to accuracy of 10 mils.

PERFORMANCE STEPS:

1. Set M2 compass on aiming circle tripod over the orienting station.
2. Center bubble in circular vial.
3. Sight on known azimuth.
4. Rotate the azimuth scale until it indicates the same as the known surveyed azimuth.
5. Recheck sight picture and azimuth to known point.

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. Ensure an appropriate distance from magnetic distractions. High tension lines 55m, Vehicles/railroad 10m, Wire/barbed fences 10m, Helmets

(small metal items) 0.5m

2. The field expedient method can be utilized if no declination station is available.

0811-GUNS-2404: Establish an Advance Party

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a firing battery.

STANDARD: Ensuring all personnel are equipped properly and able to displace to the new position.

PERFORMANCE STEPS:

1. List the personnel required in an advance party.
2. List the primary duties of advance party personnel.
3. List the equipment required by an advance party.
4. Displace the advance party to the new position.

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

0811-GUNS-2405: Conduct local security operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0811

BILLETS: Local Security Chief

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a firing battery.

STANDARD: Per the reference, MCWP 3-16.3.

PERFORMANCE STEPS:

1. Plan for the reconnaissance.
2. Select positions: Recommend an alternate and supplementary position.
3. Conduct a security sweep of the position and establish security.
4. Record the location of each section and support vehicles.
5. Set up the aiming circle and measure rough deflection, distance, and vertical angle to the proposed gun positions. Determine estimated XO's minimum QE using the M2 compass, if time permits.
6. At night, mark key positions, as dictated by unit SOP. Practice noise and light discipline.
7. Assemble the guides at the release point as the main body nears the position.
8. Plan for the defense of position.
9. Continue to improve the position and practice continuing actions.

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

0811-GUNS-2406: Emplace the M2A2 aiming circle

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an area clear of magnetic attractions.

STANDARD: Within 2 minutes and recovering it within 1 minute.

PERFORMANCE STEPS:

1. Set up the aiming circle (with tripod) for operation.
2. Level the aiming circle.
3. Recover the aiming circle.

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: Time starts upon command. Time stops when aiming circle is centered and leveled over the known point.

0811-GUNS-2409: Lay the firing battery

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Battery has occupied a new firing position.

STANDARD: To an accuracy of 0 mils or +/- 20 mils using the M2 compass, and within the following times: OA 11 min, M2 9 min, AP 4 min Darkness: OA 19 min, M2 14 min.

PERFORMANCE STEPS:

1. Determine method of lay: Aiming point-deflection, M2 compass, Howitzer back lay, Grid Azimuth, Orienting Angle methods.
2. Conduct selected method.

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Physical Constraints: Marines are required to shift the howitzer.

0811-GUNS-2410: Compute minimum quadrant elevation (MIN QE)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given all required information and the appropriate TFT.

STANDARD: To ensure all immediate crests are cleared.

PERFORMANCE STEPS:

1. Collect site to crest and piece to crest range from each Howitzer.
2. Manually or by applying the rapid fire tables compute minimum quadrant elevation.
3. This task will be computed for each charge.

REFERENCES:

1. 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

0811-GUNS-2411: Construct the local security diagram

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 months

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a battery that has just occupied a new position, personnel, and equipment.

STANDARD: Ensuring the location of observation posts and weapons systems are to be depicted on the defense diagram to within 10 meters, azimuths to within 10 mils, and the defense diagram is to be completed within 3 hours of occupation.

PERFORMANCE STEPS:

1. Plan perimeter defense per METT-T and ensure the plan is integrated with higher and adjacent units.
2. Plan and supervise local security patrols.

3. Plan and supervise preparation for defense against air attack.
4. Prepare the defensive diagram.

REFERENCES:

1. 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

0811-GUNS-2412: Lead a quick reaction force (QRF)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a battery of Marines with individual equipment, a report of an enemy force attacking and commander's guidance to remain in position.

STANDARD: To defend the battery position.

PERFORMANCE STEPS:

1. Signal the QRF to muster at the rally point.
2. Deploy the QRF.
3. Direct the movement and actions of the QRF to defend the battery/platoon position.
4. Employ automatic weapons.
5. Call for supporting arms, if appropriate.
6. Maintain communication with higher.

REFERENCES:

1. MCWP 3-1 Ground Combat 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	200 cartridges per Marine
A063 Cartridge, 5.56mm Tracer M856 Single	500 cartridges per Battery
A064 Cartridge, 5.56mm 4 Ball M855/1 Trac	500 cartridges per Section

A131 Cartridge, 7.62mm 4 Ball M80/1 Trace	500 cartridges per Section
A518 Cartridge, Caliber .50 4 SLAP M903/1	200 cartridges per Section
A576 Cartridge, Caliber .50 4 API M8/1 AP	500 cartridges per Section
B542 Cartridge, 40mm HEDP M430/M430A1 Lin	500 cartridges per Section
B546 Cartridge, 40mm HEDP M433	500 cartridges per Section
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
K143 Mine, Antipersonnel M18A1 with M57 F	20 mines per Battery
L328 Signal, Cartridge Red Flare	5 flares per Section
L495 Flare, Surface Trip M49 Series	50 flares per Battery
N340 Fuze, Point Detonating M739/M739A1	2 fuzes per Section
N523 Primer, Percussion M82	2 primers 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 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.

0811-GUNS-2414: Conduct a hasty displacement to an alternate position

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced battery and a tactical situation while serving as the Local Security Chief.

STANDARD: Ensuring the advance party assembles and departs for new position after battery displacement is approved/ordered within 4 minutes in daylight and 6 minutes in darkness.

PERFORMANCE STEPS:

1. Assemble the advance party with all equipment.
2. Depart with the advance party.

REFERENCES:

1. 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

0811-GUNS-2417: Perform crater analysis

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a crater, shell fragments, and appropriate equipment.

STANDARD: To accurately determine back azimuth and determine type and caliber of ordnance.

PERFORMANCE STEPS:

1. Determine grid of the crater.
2. Determine angle of fire high or low.
3. Determine the direction to hostile weapon using fuze furrow or side spray method.
4. Collect usable shell fragments.
5. Send shell fragments and develop shell report to appropriate agency as required.
6. Report via unit SOP.

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
3. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Ensure crater analysis is accomplished using one of the following methods: Fuze Furrow and Center of Crater, Side Spray, Ricochet Furrow, Main Axis, Splinter Groove, or Fuze Tunnel.

0811-GUNS-2501: Assist in the unit training plan

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

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given commander's training guidance.

STANDARD: In accordance with MCRP 3-0A.

PERFORMANCE STEPS:

1. Analyze capabilities and deficiencies of the battery in performing mission essential tasks described in the Artillery T&R Manual.
2. Review the battalion annual training plan.
3. Advise the battery commander on the unit's status and make recommendations on how to increase combat readiness.

REFERENCES:

1. MCRP 3-0A Unit Training Management Guide
 2. MCRP 3-0B How to Conduct Training
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0811-GUNS-2504: Direct battery organizational maintenance on organic equipment

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

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given maintenance management directives, artillery unit maintenance management personnel, T/O cover letter, T/E, Publications listing (PL), a CMR, and references.

STANDARD: Ensuring section equipment is properly maintained and accounted for, and the unit is mission capable.

PERFORMANCE STEPS:

1. Ensure maintenance records are current and properly maintained.
2. Conduct inspections to determine adequacy of maintenance programs.
3. Review daily reports with the Battery Executive Officer.

REFERENCES:

1. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
2. MCTM 10407C-OR/1 Operator's Manual for Howitzer, Medium, Towed: 155mm, M777A2
3. TM 02498A-23/2 Machine Gun, Caliber .50, Browning, M2 HB
4. TM 08670A-10/1A Operator's Manual, Machinegun, 7.62mm, M240
5. TM 08670A-14&P/1 Supplement 1, M240G
6. TM 08671A-23&P/2A Machine Gun 5.56MM M249
7. TM 10629-10C Operator Manual for the Truck, Cargo, 7-Ton
8. TM 2320-10/6B Truck, Utility 1 1/2 Ton (HMMWV)
9. TM 4700-15-1/F Marine Corps Equipment Forms and Records
10. TM 9-1005-201-10 Operator's Manual for Machinegun, 5.56mm, M249
11. UNIT SOP Unit's Standing Operating Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Physical Constraints: Marines are required to lift/shift heavy equipment in support of the battery's maintenance obligation.

0811-GUNS-2505: Employ hasty survey techniques for directional and positional control

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a tactical scenario involving the absence of accurate survey data and associated equipment.

STANDARD: Per the reference MCWP 3-16.3.

PERFORMANCE STEPS:

1. Employ GPS (if so equipped) to obtain directional and positional control upon occupation.
2. Evaluate the situation and employ one of the following methods to obtain directional control: hasty simultaneous observation, Polaris-Kochab, Polaris 2, directional traverse, Backup Computer System (BUCS) resection or Backup Computer System (BUCS) hasty astro.
3. Evaluate the situation and employ one of the following methods to obtain

- positional control: graphic resection, graphic traverse, Backup Computer System (BUCS) resection, trilateration with an eye safe laser.
4. Determine position altitude/height.
 5. Employ automated systems when conducting either directional or graphic traverse, as appropriate.

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
Facility Code 17650 Field Artillery Direct Fire Range

0811-GUNS-2506: Lay the battery for an emergency fire mission (hip shoot) while in a convoy

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 months

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a platoon/battery in convoy, a request for immediate fire support and the associated equipment.

STANDARD: Emplacing and laying the battery as soon as possible after receiving the target location and complete the FFE phase of the mission within 13 minutes.

PERFORMANCE STEPS:

1. Receive the Call For Fire.
2. Signal the convoy that a HIP SHOOT is about to take place.
3. Select the position, and notify the Fire Direction Center (FDC) of the proposed.
4. Ensure the Fire Direction Center (FDC) determines the azimuth of fire and initial data.
5. Improve the position or march order.

REFERENCES:

1. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
2. MCWP 3-16.4 Tactics, Techniques and Procedures for the Field Artillery

- Manual Cannon Gunnery
3. ST 6-50-20 Battery Executive Officer's/ Platoon Leader's Handbook
 4. TFT's and Addendums TFT's and Addendums

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

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.

0811-GUNS-2507: Supervise a battery displacement

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced battery that has received a warning order to displace and all of the associated equipment.

STANDARD: Ensuring an appropriate movement order is issued, equipment and ammunition is properly secured and elements assume proper location within movement order or technique.

PERFORMANCE STEPS:

1. Prepare for displacing a battery.
2. Issue the command, "PREPARE TO MARCH ORDER."
3. Develop the method of march.
4. Plan for the march column contingencies during displacement.
5. Issue the movement order. (NOTE: Format found in ST 6-50-20.)

REFERENCES:

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

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.

0811-GUNS-2508: Direct the defense of a field artillery unit

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a battery that has occupied a position, and a completed defensive diagram.

STANDARD: To ensure uninterrupted artillery operations.

PERFORMANCE STEPS:

1. Select the appropriate course of action, based upon the tactical scenario.
2. Supervise the execution of the defensive plan.

REFERENCES:

1. MCIP 3-16.01 Tactics, Techniques, and Procedures for Lightweight 155
 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
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0811-GUNS-2509: Supervise a tactical road march

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a unit that has been issued movement orders.

STANDARD: Conduct appropriate tactical march per MCWP 3-16.3.

PERFORMANCE STEPS:

1. Ensure the types of displacement, march column interval, and march column configuration maximize passive and active defense measures.
2. Execute appropriate immediate action drill when convoy comes under attack by air, ground, and/or artillery/rocket/missiles.

3. Prepare vehicles appropriately for convoy defense.
4. Ensure 6400 mil security throughout.
5. Ensure vehicle recovery/bump plan is established.

REFERENCES:

1. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
2. MCWP 4-11.3 Transportation Operations

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

0811-GUNS-2510: Prepare the Executive Officer's (XO's) report

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a firing battery that has been laid, and administrative materials.

STANDARD: Ensuring the accuracy of the required information per MCWP 3-16.3.

PERFORMANCE STEPS:

1. Verify the lay of the battery.
2. List the primary information in the XO's report.
3. Complete report.

REFERENCES:

1. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
 2. MCWP 3-16.4 Tactics, Techniques and Procedures for the Field Artillery Manual Cannon Gunnery
 3. ST 6-50-20 Battery Executive Officer's/ Platoon Leader's Handbook
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0811-GUNS-2511: Measure the azimuth of the line of fire

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 4 months

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an area free of metal attractions, a situation wherein survey control is not available and the appropriate equipment.

STANDARD: Ensuring the azimuth is measured to an accuracy of 0 mils.

PERFORMANCE STEPS:

1. Use proper commands, with survey, ensuring the azimuth is measured to an accuracy of 0 mils.
2. Use proper commands, without survey, ensuring the azimuth is measured to an accuracy of 0 mils.

REFERENCES:

1. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
 2. ST 6-50-20 Battery Executive Officer's/ Platoon Leader's Handbook
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0811-GUNS-2513: Measure the vertical angle (VA)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an aiming circle with tripod, a scenario allowing no time for advance party preparations, and an emplaced howitzer.

STANDARD: Within +/- 1 mil.

PERFORMANCE STEPS:

1. Set up and level aiming circle.
2. Use elevation knob determine correction factor.
3. Measure Vertical Angle.

REFERENCES:

1. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
 2. ST 6-50-20 Battery Executive Officer's/ Platoon Leader's Handbook
 3. TM 9-1290-262-10 Operator's Manual, Aiming Circle, M2 and M2A2
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0811-GUNS-2514: Displace howitzers to supplementary positions in defense of the battery position

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a howitzer section and ammunition.

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

PERFORMANCE STEPS:

1. Displace howitzers.
2. Emplace howitzers.
3. Displace howitzers.

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	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 primers per Section
NA15 Fuze, Electronic Time M767A1	3 fuzes per Section

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

KEY INDICATORS:

1. Time Starts: When the section has been notified to displace.
2. 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.
3. Times Starts: When section dismounts.
4. Time Stops: When section is ready to engage.

0811-GUNS-2515: Supervise processing EPWs

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: The battery is in support of tactical operations and the unit's local security has captured enemy soldiers.

STANDARD: Ensuring proper handling of EPWs is preformed.

PERFORMANCE STEPS:

1. Perform the five "S" and "T" once EPWs are captured.
2. Relinquish control to 1stSgt for further processing.

REFERENCES:

1. FMFM 4-1 Combat Service Support Operations
2. UNIT SOP Unit's Standing Operating Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Physical Constraints: Marines are expected to handle and control EPWs.

0811-GUNS-2517: Coordinate logistics

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a scenario involving a unit conducting tactical operations.

STANDARD: Adhering to logistics and maintenance management Standing Operating Procedures (SOPs).

PERFORMANCE STEPS:

1. Consider the logistics functions in the development of tactical plans.
2. Include attached elements in all logistical planning.
3. Comply with basic loads established by higher headquarters.
4. Maintain dispersion between material and ammunition within positions.
5. Submit logistics reports, per Standing Operating Procedures (SOP).
6. Conduct Preventive Maintenance (PM) and Corrective Maintenance (CM) in a field.

REFERENCES:

1. MCWP 3-16.1E Combat Service Support for Artillery Unit
 2. UNIT SOP Unit's Standing Operating Procedures
-

0811-GUNS-2518: Maintain Class V small-arms ammo basic load and supplies

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given appropriate small arms ammunition.

STANDARD: Ensuring all small-arms ammunition is available, maintained, and requisitioned.

PERFORMANCE STEPS:

1. Adhere to established Standing Operating Procedures (SOPs).
2. Ensure small arms Basic Load (BL) are maintained for all equipment.
3. Forecast and submit requisitions to maintain the Required Supply Rate (RSR).

REFERENCES:

1. MCO 8010.1_ Class V (W) Planning Factors for Fleet Marine Force Combat Operations
 2. MCWP 3-16.1E Combat Service Support for Artillery Unit
 3. UNIT SOP Unit's Standing Operating Procedures
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0811-GUNS-2519: Supervise the pickup and delivery of designated classes of supply

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given supplies requiring distribution, and the appropriate equipment.

STANDARD: Ensuring the proper supplies are delivered and issued to the correct units in a secure and timely manner.

PERFORMANCE STEPS:

1. Obtain supplies from authorized sources.
2. Maintain appropriate security to prevent loss, damage, or theft.
3. Ensure timely schedule of delivery to minimize the probability of contamination or spoilage.
4. Make delivery to proper battery elements, as directed by requisitions.

REFERENCES:

1. MCWP 3-16.1E Combat Service Support for Artillery Unit

SUPPORT REQUIREMENTS:

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

0811-GUNS-2520: Supervise ammunition resupply on the gunline

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced battery, an ammunition load, and a mission.

STANDARD: Ensuring the required ammunition to respond to all fire missions is present on each howitzer.

PERFORMANCE STEPS:

1. Receive information on the battery mission from the Battery Executive Officer.
2. Supervise the battery ammunition section in the timely delivery of all

- ammunition components.
3. Ensure excessive amounts of ammunition are not delivered.
 4. Supervise the pickup of all ammunition dunnage.

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:

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

0811-GUNS-2521: Supervise embarkation

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0811

BILLETS: Btry GySgt

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an artillery unit designated as a landing element of a larger force, and available shipping to conduct an amphibious assault.

STANDARD: Coordinating with the Marine Air Ground Task Force (MAGTF) Ground Combat Element (GCE) embarkation officer, and other embarkation officers/movement officers, as appropriate.

PERFORMANCE STEPS:

1. Determine the unit's transportation lift requirements.
2. Ensure all material is properly marked, packaged, manifested, and loaded for embarkation.
3. Conduct embarkation inspections.
4. Prepare and execute embarkation/movement plans.
5. Provide security for material during embarkation.

REFERENCES:

1. CFR 46 Shipping
2. CFR 49 Code of Federal Regulations Parts 100-185 - Transportation
3. FMFM 4-1 Combat Service Support Operations
4. FMFM 4-6 Movement of Units in Air Force Aircraft
5. FMFM 4-9 Motor Transport
6. LFM 03 Amphibious Embarkation
7. NAVSEA OP 4 Ammunition Afloat
8. OH 4-1 Combat Service Support Operations

NAVMC 3500.7A
6 Nov 2012

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: DISTANCE LEARNING PRODUCTS: 045, The
Logistics/Embarkation Specialist and 047, Introduction to Amphibious
Embarkation.

ARTILLERY T&R MANUAL

CHAPTER 13

EFSS INDIVIDUAL EVENTS

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ARTILLERY T&R MANUAL

CHAPTER 13

EFSS MOS INDIVIDUAL EVENTS

13000. PURPOSE. This chapter details the individual events that pertain to the community. These events are linked to a service-level Mission Essential Tasks (MET). This linkage tailors individual training for the selected MET. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

13001. 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 or military occupational field (0811). The second four digits represent the functional or duty area. The last four digits represent the level, and identifier number of the event. Every individual event has an identifier number from 000 to 999.

13002. INDEX OF 1000-LEVEL EVENTS

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13003. 1000-LEVEL EVENTS

0811-EFSS-1001: Perform Preventive Maintenance Checks and Services (PMCS)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M327 mortar.

STANDARD: Following all safety precautions and warnings; correct or report all defects per MCTM 11166A-OR/A.

PERFORMANCE STEPS:

1. Perform equipment checks and services using Preventive Maintenance Checks and Services listed in the reference.
2. Perform authorized maintenance inspections, per maintenance procedures listed in the reference to include disassembly of the mortar to the three major components.
3. Report status of equipment and deficiencies.
4. Observe precautions and warnings.

REFERENCES:

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Inspections occur at regular intervals to avoid equipment damage and/or failure (before, during, and after firing operations; and on a weekly and monthly basis).

0811-EFSS-1003: Emplace the mortar

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a mortar in the towing configuration with section equipment.

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

PERFORMANCE STEPS:

1. Prime Mover Weapon (PMW) and M327 120mm Rifled Towed Mortar on the azimuth of ire or back azimuth of fire.
2. Place Prime Mover Trailer (PMT) and Ammunition Trailer (AT) in position IAW unit SOP.
3. Disconnect inter-vehicle electrical cable from the mortar and mortar stool and stow cable in PMW.
4. Disconnect the lunette safety chains, remove safety pin, and open PMW tow pintle.

5. Remove mortar stool.
6. Unhook mortar from PMW and lower baseplate to the deck
7. Unlock cross-leveling and traversing mechanism locks.
8. Position PMW to the rear of the mortar.

REFERENCES:

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

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17431 Impact Area Non-Dudded

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Physical Constraint: Marines are required to lift equipment weighing in excess of 100 lbs repetitiously in a short amount of time.

0811-EFSS-1004: Emplace the Aiming Posts

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a mortar and section equipment.

STANDARD: Within one minute.

PERFORMANCE STEPS:

1. Assemble the aiming posts.
2. Position far aiming post 70 meters and near aiming post 35 meters.

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:

RANGE/TRAINING AREA: Facility Code 17431 Impact Area Non-Dudded

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: If far aiming post cannot be placed 70 meters from the mortar, place it as far away as possible; then place near post one half the distance.

0811-EFSS-1005: Perform prefire checks

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a mortar in a firing position that has been laid.

STANDARD: Reporting any discrepancies to the Section Chief.

PERFORMANCE STEPS:

1. Verify bore is clear.
2. Ensure trailing arms are locked.

REFERENCES:

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

0811-EFSS-1006: Employ proper ammunition storage procedures

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an ammunition trailer with rifled or smoothbore ammunition.

STANDARD: Ensuring that all ammunition is properly separated, stored, secured, and protected from hazards.

PERFORMANCE STEPS:

1. Store ammunition in the trailer.
2. Separate ammunition by lot, type, and weight zone per references and Standard Operating Procedures (SOP).
3. Protect ammunition from the weather and direct sunlight.
4. Secure ammunition to prevent movement in any direction.
5. Inspect ammunition for serviceability.

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 cartridges per Section

RANGE/TRAINING AREA: Facility Code 17431 Impact Area Non-Dudded

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. DODICs listed in ammunition table reflect a requirement if this task was trained as a stand-alone task. This task is normally performed and evaluated during collective live-fire training. Dummy/inert ammunition maybe used for non-live-fire training.
2. Physical Constraint: Marines are required to lift equipment weighing in excess of 100 lbs repetitiously in a short amount of time

0811-EFSS-1007: Respond to fire commands

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

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given all the fire command elements.

STANDARD: Without error.

PERFORMANCE STEPS:

1. Respond to the fire command elements.
2. State firing reports.
3. Respond to planned targets.
4. Complete the Record of Missions Fired (DA 4513).

REFERENCES:

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

0811-EFSS-1008: Record fire mission data

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

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a blank Record of Missions Fired (DA Form 4513), standard data, and fire commands.

STANDARD: Without error.

PERFORMANCE STEPS:

1. "ADMINISTRATIVE" section is completed correctly.
2. "AMMUNITION/FUZES ON HAND" section is completed correctly.
3. "FIRE MISSION DATA" section is completed correctly.
4. "AMMUNITION EXPENDED" section is completed correctly.

REFERENCES:

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

0811-EFSS-1009: Prepare semi-fixed ammunition for firing

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given semi-fixed ammunition, appropriate fuze setters (if applicable), section equipment, an assistant, and a fire command.

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

PERFORMANCE STEPS:

1. On the command, "SHELL _____", select the announced projectile and remove the round from the ammo canister.
2. On the command, "CHARGE _____", inspect the propellant and prepare the appropriate charge.
3. On the command, "FUZE _____", ensure the announced fuze is properly mated to the projectile.
4. On the command, "TIME _____", set the announced time using appropriate fuze setter, if applicable.
5. Carry excess propellant increments, if any, to the mission pit.
6. Move propellant increments from the mission pit to the end of mission" pit

at the command "END OF MISSION."

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

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 M103	3 mortars per Section
DWGU Tail Charge Assembly (TCA) M237	3 cartridges per Section

RANGE/TRAINING AREA: Facility Code 17431 Impact Area Non-Dudded

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. DODICs listed in ammunition table reflect a requirement if this task was trained as a stand-alone task. This task is normally performed and evaluated during collective live-fire training. Dummy/inert ammunition maybe used for non-live-fire training.
2. Physical Constraint: Marines are required to lift equipment weighing in excess of 100 lbs repetitiously in a short amount of time.

0811-EFSS-1010: Load a prepared round

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

DESCRIPTION: All actions denote cannoneer's number 1 & 2's actions.

MOS PERFORMING: 0811

BILLETS: Cannoneer

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a mortar in a firing position and a fire mission.

STANDARD: Following all instructions from the Section Chief.

PERFORMANCE STEPS:

1. Step onto the mortar stool, if necessary.
2. Load the semi-fixed round.
3. Step off the mortar stool on the Gunners side of the mortar and knee down.

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

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 recruit
DWGU Tail Charge Assembly (TCA) M237	3 cartridges per Section

RANGE/TRAINING AREA: Facility Code 17431 Impact Area Non-Dudded

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. DODICs listed in ammunition table reflect a requirement if this task was trained as a stand-alone task. This task is normally performed and evaluated during collective live-fire training. Dummy/inert ammunition maybe used for non-live-fire training.
2. Physical Constraint: Marines are required to lift equipment weighing in excess of 100 lbs repetitiously in a short amount of time

0811-EFSS-1011: Conduct misfire procedures

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Cannoneer, Gunner

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a mortar, rifled or smoothbore ammunition, a misfire involving a cold/hot barrel, and the reference (MCTM 11166A-OR/A).

STANDARD: In accordance with TM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327.

PERFORMANCE STEPS:

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

REFERENCES:

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

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17431 Impact Area Non-Dudded

0811-EFSS-1012: Displace the mortar

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0811

BILLETS: Cannoneer, Gunner

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a mortar in the firing position.

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

PERFORMANCE STEPS:

1. Displace the mortar with minimal guidance from the Section Chief.
2. Section gear and sights are stowed.
3. Sight cover is in place.
4. Tires are serviceable and properly inflated.
5. Lunette is properly attached to pintle and pintle is latched and locked with safety retaining pin.

REFERENCES:

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

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17431 Impact Area Non-Dudded

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13005. 2000-LEVEL EVENTS

0811-EFSS-2201: Lay the mortar for initial direction of fire using the M2A2 Aiming Circle

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar in the firing position and all required equipment.

STANDARD: To an accuracy of 0 mils within 3 minutes in daylight and 5 minutes in darkness.

PERFORMANCE STEPS:

1. Place the initial deflection on the M67 series sight.
2. Verify the carriage is cross level.
3. Obtain initial deflection from aiming circle.
4. The gunner directs the crew to shift the mortar until readings between pantel and aiming circle are less than 10 mils.
5. Announce, "NUMBER (SO AND SO) READY FOR RECHECK."
6. Repeat until the difference between mortar readings and lay circle is 0 mils.
7. Record reading from azimuth scales on gunner's reference card.
8. Establish aiming point.
9. Record deflection to aiming point(s) on the gunner's reference card.
10. Slip deflection scale to 3200 on primary aiming point.

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:

RANGE/TRAINING AREA: Facility Code 17431 Impact Area Non-Dudded

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. DODICs listed in ammunition table reflect a requirement if this task was trained as a stand-alone task. This task is normally performed and evaluated during collective live-fire training. Dummy/inert ammunition maybe used for non-live-fire training.
2. Physical Constraint: Marines are required to lift equipment weighing in excess of 100 lbs repetitiously in a short amount of time

0811-EFSS-2202: Lay for initial azimuth of fire using a Distant Aiming Point (DAP)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL

INITIAL TRAINING SETTING: MOJT

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

STANDARD: To an accuracy of 0 mils within 50 seconds.

PERFORMANCE STEPS:

1. Place announced deflection on the azimuth scales.
2. Shift the mortar or traverse the barrel until the distant aiming point (DAP) is centered in reticle pattern.
3. Ensure bubbles are centered.
4. Announce, "NUMBER (SO-AND-SO), AIMING POINT IDENTIFIED, DEFLECTION (SO MUCH)."
5. Record lay deflection on gunner's reference card.

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:

RANGE/TRAINING AREA: Facility Code 17431 Impact Area Non-Dudded

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Physical Constraint: Marines are required to lift equipment weighing in excess of 100 lbs repetitiously in a short amount of time.

0811-EFSS-2203: Lay a mortar by reciprocal lay using M67 series sight

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given two mortars in firing positions, one laid on the azimuth of fire and the other positioned within 50 mils of the azimuth of fire, and a command to lay the weapon.

STANDARD: Ensuring the mortar is laid to an accuracy of 0 mils within 60 seconds, using the proper commands.

PERFORMANCE STEPS:

1. Lay mortar: Sight in on the designated mortar's pantel.
2. Lay mortar: Record the reading on the azimuth scale (add or subtract 3200 mils from the reading).
3. Lay mortar: Announce, "NUMBER (SO AND SO), ADJUST AIMING POINT THIS INSTRUMENT."
4. Unlaid mortar: Rotate the pantel onto the laying mortars pantel and announce, "NUMBER (SO AND SO), AIMING POINT IDENTIFIED."
5. Lay mortar: Announce the converted deflection, "NUMBER (SO AND SO),

- DEFELECTION (SO MUCH)." (See admin note below)
6. Unlaid mortar: Set off announced deflection on the pantel and shift the mortar until the vertical and horizontal reticle lines are centered on the laying mortar's pantel.
 7. Unlaid mortar: Announce, "NUMBER (SO AND SO), READY FOR RECHECK."
 8. Lay mortar: Determine new reading, and announce, "NUMBER (SO AND SO), DEFELECTION (SO MUCH)."
 9. Unlaid mortar: Announce, "NUMBER (SO AND SO), DEFELECTION (SO MUCH) (SO MANY) MILS."
 10. Unlaid mortar: Announce, "READY FOR RECHECK."
 11. Repeat steps 7-9 until the difference is zero mils.
 12. Lay mortar: Announce, "NUMBER (SO AND SO) IS LAID."

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:

RANGE/TRAINING AREA: Facility Code 17431 Impact Area Non-Dudded

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Ensure the reading is converted using LARS (Left add, Right subtract). Add 3200 mils if the mortar is to the left of the lay mortar. Subtract 3200 mils if the mortar is to the right of the lay mortar.
2. Mortar must be lowered on the base plate prior to being laid.
3. Time Starts: Upon receipt of command, Time Stops: When mortar is laid.

0811-EFSS-2204: Align Aiming Posts using the M67 series sight

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar (emplaced and laid for direction), a complete set of aiming posts, an assistant, and the gunner's reference card.

STANDARD: Ensuring no displacement is present in the reticle pattern within one minute.

PERFORMANCE STEPS:

1. Ensure elevation and cross-level vials are centered.

2. Rotate M67 to far aiming post.
3. Align aiming posts by directing assistant with standard hand and arm signals.
4. Verify correct sight picture.
5. Record deflection from azimuth scale to aiming posts on the gunner's reference card.

REFERENCES:

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

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17431 Impact Area Non-Dudded

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts: When aiming posts are directed to be emplaced.
2. Time stops: When deflection to aiming post is recorded on gunner's reference card.

0811-EFSS-2205: Prepare Gunner's reference card

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar that has been laid, aiming points emplaced, sector of fire, and a gunner's reference card.

STANDARD: Without error per the reference MCWP 3-16.3.

PERFORMANCE STEPS:

1. Record initial lay data.
2. Record standard data.
3. Record priority target data.
4. Record position corrections data

REFERENCES:

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

EVALUATOR INSTRUCTIONS: The gunner's reference card is completed promptly as pertinent information becomes available.

KEY INDICATORS: Gunner's reference card prepared by all sections for each position occupied as per MCWP 3-16.3 and unit SOP.

0811-EFSS-2206: Verify boresight of the M67 series sight

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced mortar, an alignment device, an assistant, and the reference (MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327).

STANDARD: Ensuring standard angle is within +/- 2 mils, within 1 minute.

PERFORMANCE STEPS:

1. (Gunner) Elevate or depress mortar barrel to the established mark on the mortar barrel and install boresight verification magnifier.
2. Insert the boresight verification device into the barrel and level.
3. (Gunner) Set 800 mils on the elevation scales.
4. (Gunner) Center bubble of cross leveling vial.
5. (Gunner) Turn azimuth knob until the standard angle for the mortar is indicated on the azimuth scales.
6. Verify the sight picture.
7. If standard angle is not within tolerance use two additional BVDs to complete a comparison test.

REFERENCES:

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Verify boresight with two other alignment devices from adjacent mortars if azimuth scale does not indicate standard angle deflection within +/- 2 mils.

0811-EFSS-2207: Lay the mortar for deflection and quadrant using M67 series sight

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced mortar laid on the azimuth of fire, an aiming point and a fire command.

STANDARD: To an accuracy of 0 mils within 30 seconds.

PERFORMANCE STEPS:

1. Lay the mortar for deflection, using the designated aiming point.
2. Lay the mortar for quadrant using the elevation scale.
3. Once bubbles are centered the gunner will announce "SET."

REFERENCES:

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time Starts: When command QE is announced.
 2. Time Stops: When Gunner announces "SET."
-

0811-EFSS-2208: Measure the quadrant using the M67 series sight

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar elevated to an unknown quadrant.

STANDARD: Within 15 seconds to an accuracy of 0 mils.

PERFORMANCE STEPS:

1. Center the bubble in the elevation vial without moving the barrel.
2. Center the bubble in the cross level vial without moving the barrel.
3. Announce the quadrant from the elevation scales.

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time Starts: Upon command "Measure QE."
 2. Time Stops: When gunner announces "QE."
-

0811-EFSS-2209: Establish Standard Angle

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar that has been boresighted.

STANDARD: Without error per the reference MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327.

PERFORMANCE STEPS:

1. Establish the standard angle.
2. Record standard angle.

REFERENCES:

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

0811-EFSS-2210: Perform prefire checks

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Gunner

GRADES: CPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar in a firing position that has been laid.

STANDARD: Reporting discrepancies to the Section Chief.

PERFORMANCE STEPS:

1. Check for overhead mask; Elevate 1600 mils, sight along the top of the barrel (from breech to muzzle). Check for obstructions through the full range of traverse.
2. Ensure barrel is properly locked to the baseplate and ensure the rotating socket levers are perpendicular to center traverse.
3. Ensure relief valve cap is hand tight and free of debris.
4. Ensure M67 series sight is properly locked to the shock attenuating sight mount.

REFERENCES:

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

0811-EFSS-2301: Supervise emplacement of a mortar

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar and section equipment.

STANDARD: Utilizing the memory aid BLABSPAP.

PERFORMANCE STEPS:

1. B - Baseplate properly emplaced.
2. L - Lay the weapon.
3. A - Emplace the aiming point.
4. B - Boresight verified or performed.
5. S - Second circle. Verification of lay performed with a second circle.
6. P - Prefire checks on weapon system performed.
7. A - Ammunition prepared.
8. P - Position improvement.

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:

RANGE/TRAINING AREA: Facility Code 17431 Impact Area Non-Dudded

0811-EFSS-2302: Conduct Section Chief Verification

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar that has been emplaced.

STANDARD: Ensuring the command, "CHECK FIRING," is given when unsafe conditions exist.

PERFORMANCE STEPS:

1. Determine whether the data received is safe to fire, using safety Ts.
2. Verify that the deflection and quadrant is set correctly.
3. Verify charge and lot on projectile and propellant.
4. Verify fuze and fuze setting.
5. Verify all safe conditions exist according to Joint Regimental Safety SOP.
6. Command, "CHECK FIRING," if any unsafe condition exists.

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

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 cartridges per Section

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: DODICs listed in ammunition table reflect a requirement if this task was trained as a stand-alone task. This task is normally performed and evaluated during collective live-fire training. Dummy/inert ammunition maybe used for non-live-fire training.

0811-EFSS-2303: Supervise the preparation of semi-fixed ammunition for firing

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a complete round.

STANDARD: Ensuring proper handling procedures are used.

PERFORMANCE STEPS:

1. Identify the three components of a complete round of mortar ammunition.
2. Identify proper shell/fuze combination from fire commands.
3. Identify proper propellant/projectile combination from fire commands.
4. Verify proper fuze setting.

5. Ensure proper ammunition handling procedures are used.

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

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 cartridges per Section

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: DODICs listed in ammunition table reflect a requirement if this task was trained as a stand-alone task. This task is normally performed and evaluated during collective live-fire training. Dummy/inert ammunition maybe used for non-live-fire training.

0811-EFSS-2304: Supervise indirect fire missions

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced mortar, crew and a fire command.

STANDARD: Ensuring the Mortar is ready to fire within 30 seconds.

PERFORMANCE STEPS:

1. Set correct deflection and quadrant.
2. Align M67 series sight on aiming posts/DAP prior to firing.
3. Center bubbles prior to firing.
4. Mortar is loaded after verification of deflection and quadrant.

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 cartridges per Section

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time Starts: Quadrant is announced by the section chief.
2. Time stops when the section reports "Ready."
3. DODICs listed in ammunition table reflect a requirement if this task was trained as a stand-alone task. This task is normally performed and evaluated during collective live-fire training. Dummy/inert ammunition maybe used for non-live-fire training.

0811-EFSS-2305: Lay on priority target

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

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced mortar and priority target data.

STANDARD: Ensuring data is recorded on the gunner's reference card and mortar is properly laid at the completion of each fire mission.

PERFORMANCE STEPS:

1. Ammunition components are inspected.
2. Semi-fixed ammunition is prepared and segregated.
3. Record priority target data on gunner's reference card.

REFERENCES:

1. 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

0811-EFSS-2306: Prepare mortar to fire outside of normal traverse limits

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar, crew, and section equipment.

STANDARD: Within 3 minutes in daylight and 6 minutes in darkness.

PERFORMANCE STEPS:

1. Ensure gunner properly switches aiming points, (if required).
2. Apply deflection from FDC to M67 series sight.
3. Command "MUZZLE RIGHT (OR MUZZLE LEFT)."
4. Ensure the gunner obtains correct sight picture on aiming point.
5. Direct mortar section to prepare mortar for firing.

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

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 cartridges per Section

RANGE/TRAINING AREA: Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. DODICs listed in ammunition table reflect a requirement if this task was trained as a stand-alone task. This task is normally performed and evaluated during collective live-fire training. Dummy/inert ammunition maybe used for non-live-fire training.
2. Time Starts: When "DF" is announced. Time Stops: When gunner announces "LAID."
3. Physical Constraint: Marines are required to lift equipment weighing in excess of 100 lbs repetitiously in a short amount of time.

0811-EFSS-2307: Supervise proper ammunition storage procedures

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar section and an ammunition trailer.

STANDARD: Ensuring ammunition is safely and efficiently loaded, secured, and moved.

PERFORMANCE STEPS:

1. Ensure ammunition is loaded IAW the load plan and the reference.
2. Ensure adherence to safety precautions.
3. Direct the section to correct any errors observed.
4. Report propellant temperature to the FDC as directed.

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

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 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: DODICs listed in ammunition table reflect a requirement if this task was trained as a stand-alone task. This task is normally performed and evaluated during collective live-fire training. Dummy/inert ammunition maybe used for non-live-fire training.

0811-EFSS-2308: Navigate from one point on the ground to another point (MOUNTED)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a tactical vehicle and standard map of the area.

STANDARD: Successfully directing the driver to the new position.

PERFORMANCE STEPS:

1. Determine effects of terrain on vehicle movement.
2. Determine effects of weather on vehicle movement.
3. Navigate by terrain association.
4. Navigate by dead reckoning.

REFERENCES:

1. FM 3-25.26 Map Reading and Land Navigation
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
3. MCWP 4-11.3 Transportation Operations

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

0811-EFSS-2309: Boresight the mortar

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced mortar.

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.

PERFORMANCE STEPS:

1. Distant Aiming Point (DAP) Method: The M45E1 boresight unit is used and DAP is identified at least 1500 meters away from the position. The section only makes authorized adjustments and the section chief verifies boresight.
2. M2A2 Aiming Circle Method: The M45E1 boresight unit is used and the M2A2 aiming circle is placed 50 meters to the front or to the rear of mortar.

The section only makes authorized adjustments and the section chief verifies boresight.

3. 200 Meter Method: The M45E1 boresight unit is used and an aiming post is positioned 200 meters to the front or to the rear of the mortar. The section only makes authorized adjustments and the section chief verifies boresight.

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts: on the command "Boresight" is announced.
2. Time stops: when the mortar is boresighted.

0811-EFSS-2310: Measure the quadrant using the gunner's quadrant

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

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar with the barrel elevated to an unknown quadrant, and a tested gunner's quadrant.

STANDARD: Ensuring measurement to the nearest whole mil within 30 seconds.

PERFORMANCE STEPS:

1. Place the gunner's quadrant on the quadrant seats (located on the collar/carriage assembly).
2. Center the bubble in the cross level vial without moving the barrel.
3. Center the bubble on gunner's quadrant without moving the barrel.
4. Read the quadrant to the nearest whole mil from the gunner's quadrant.

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts: on the command "Quadrant" is announced.
 2. Time stops: when quadrant is measured.
-

0811-EFSS-2311: Perform Fire Control Alignment Test

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar, section, and equipment.

STANDARD: Ensuring the on-carriage fire control equipment and the gunner's quadrant are serviceable and within authorized tolerances.

PERFORMANCE STEPS:

1. Prepare the mortar for fire control alignment.
2. Conduct the tests of the on-carriage fire control equipment.
3. Notify field level maintenance if any alignment device exceeds the tolerance.

REFERENCES:

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

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

0811-EFSS-2312: Prepare a mortar section for displacement by aircraft

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT

INITIAL TRAINING SETTING: MOJT

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

STANDARD: Ensuring the mortar section is prepared for airborne extraction within 7 minutes during daylight and 10 minutes during darkness.

PERFORMANCE STEPS:

1. Brief personnel.
2. Identify necessary individual gear.
3. Identify necessary section gear.
4. Assign personnel to carry section gear.
5. Ensure individual weapons are properly handled.
6. Determine sequence of embark/debark.
7. Place the mortar into the transport position.

8. Direct loading of mortar for internal or external lift.

REFERENCES:

1. MCRP 4-11.3E/FMFRP 5-31 VOL 1 Multi-Service Helicopter Sling Load: Basic Ops and Equipment
2. MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327

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" is announced.
2. Time stops: when the mortar is in transport position.

0811-EFSS-2313: Displace the mortar

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced mortar.

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

PERFORMANCE STEPS:

1. On the command "MARCH ORDER" displace the mortar.
2. Ensure the section operates with minimal commands.

REFERENCES:

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

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 the command "March Order" is announced.

2. Time stops: When the mortar is moved.
3. Physical Constraints: Marines are required to lift equipment weighing in excess of 100 lbs repetitiously in a short amount of time.

0811-EFSS-2314: Supervise misfire procedures

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Section Chief

GRADES: SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar, rifled or smoothbore ammunition, a misfire involving a cold/hot barrel, and the reference (MCTM 11166A-OR/A Operator's Manual for Mortar, Rifled, Towed: 120mm, M327).

STANDARD: Observing all safety warnings and precautions IAW the technical manual, MCTM 11166A-OR/A.

PERFORMANCE STEPS:

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

REFERENCES:

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

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 cartridges per Section

RANGE/TRAINING AREA:

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

0811-EFSS-2401: Declinate the Aiming Circle

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an area free of magnetic attractions and surveyed declination station.

STANDARD: Recording the declination constant, operator's initials, and date performed on the notation pad on the base of the aiming circle.

PERFORMANCE STEPS:

1. Set up and level the aiming circle over declination station.
2. Record the declination constant for two or more azimuth markers.
3. Compare the declination constants (Must agree within 2 mils).
4. Determine the mean and express to the nearest whole mil.

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

0811-EFSS-2402: Declinate the M2 compass

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant, Section Chief

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a surveyed declination station free from magnetic attractions.

STANDARD: Reading to accuracy of 10 mils.

PERFORMANCE STEPS:

1. Set M2 compass on aiming circle tripod over the orienting station.
2. Center bubble in circular vial.
3. Sight on known azimuth.
4. Rotate the azimuth scale until it indicates the same as the known surveyed azimuth.

5. Recheck sight picture and azimuth to known point.

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. Ensure an appropriate distance from magnetic distractions. High tension lines 55 meters, Vehicles/railroad 10 meters, Wire/barbed fences 10 meters, Helmets (small metal items) 0.5 meter.
2. The field expedient method can be utilized if no declination station is available.

0811-EFSS-2403: Establish an Advance Party

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

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar platoon.

STANDARD: Ensuring all personnel are equipped properly and able to displace to the new position.

PERFORMANCE STEPS:

1. List the personnel required in an advance party.
2. List the primary duties of advance party personnel.
3. List the equipment required by an advance party.
4. Displace the advance party to the new position.

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

0811-EFSS-2404: Conduct local security operations

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

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mortar platoon.

STANDARD: Per the reference, MCWP 3-16.3.

PERFORMANCE STEPS:

1. Plan for the reconnaissance.
2. Per the reference, plan the reconnaissance, selection and occupation of a position.
3. Select positions: Recommend an alternate and supplementary position.
4. Conduct a security sweep of the position and establish security.
5. Record the location of each section and support vehicles.
6. At night, mark key positions, as dictated by unit SOP. Practice noise and light discipline.
7. Plan for the defense of position.
8. Continue to improve the position and practice continuing actions.

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

0811-EFSS-2405: Emplace the M2A2 Aiming Circle

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

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an area clear of magnetic attractions.

STANDARD: Within 2 minutes and recovering it within 1 minute.

PERFORMANCE STEPS:

1. Set up the aiming circle (with tripod) for operation.
2. Level the aiming circle.
3. Recover the aiming circle.

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: Time starts upon command. Time stops when aiming circle is centered and leveled over the known point.

0811-EFSS-2406: Lay the mortar platoon

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: The platoon has occupied a new firing position.

STANDARD: To an accuracy of 0 mils using the OA method, or +/- 20 mils using the M2 compass, and within the following times: OA 5 min, M2 10 min, AP 5 min
Darkness: OA 7 min, M2 15 min.

PERFORMANCE STEPS:

1. Determine method of lay: Aiming point-deflection, M2 compass, Howitzer back lay, Grid Azimuth, Orienting Angle methods.
2. Conduct selected method.

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:

RANGE/TRAINING AREA:

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

0811-EFSS-2407: Construct the local security diagram

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a platoon that has just occupied a new position, personnel and equipment.

STANDARD: Ensuring the location of observation posts and weapons systems are to be depicted on the defense diagram to within 10 meters, azimuths to within 10 mils, and the defense diagram is to be completed within 3 hours of occupation.

PERFORMANCE STEPS:

1. Plan perimeter defense per METT-T and ensure the plan is integrated with higher and adjacent units.
2. Plan and supervise local security patrols.
3. Plan and supervise preparation for defense against air attack.
4. Prepare the defensive diagram.

REFERENCES:

1. 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

0811-EFSS-2408: Lead a Quick Reaction Force (QRF)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a platoon of Marines with individual equipment, a report of an enemy force attacking and commander's guidance to remain in position.

STANDARD: Per the reference MCWP 3-16.3.

PERFORMANCE STEPS:

1. Signal the QRF to muster at the rally point.
2. Deploy the QRF.
3. Direct the movement and actions of the QRF to defend the battery/platoon position.
4. Employ automatic weapons.
5. Call for supporting arms, if appropriate.
6. Maintain communication with higher.

REFERENCES:

1. MCWP 3-1 Ground Combat 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:

RANGE/TRAINING AREA:

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

0811-EFSS-2409: Conduct a hasty displacement to an alternate position

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an emplaced platoon and a tactical situation while serving as the Local Security Chief.

STANDARD: Ensuring the advance party assembles and departs for new position after battery displacement is approved/ordered within 4 minutes in daylight 6 minutes in darkness.

PERFORMANCE STEPS:

1. Assemble the advance party with all equipment.
2. Depart with the advance party.

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

0811-EFSS-2410: Perform crater analysis

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 2 months

MOS PERFORMING: 0811

BILLETS: Platoon Sergeant

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: In a tactical or non-tactical situation, a usable crater and appropriate equipment.

STANDARD: To accurately determine back azimuth and determine type and caliber of ordnance.

PERFORMANCE STEPS:

1. Determine grid of the crater.
2. Determine angle of fire - high or low.
3. Determine the direction to hostile weapon using fuze furrow or side spray method
4. Collect usable shell fragments.
5. Send shell fragments and information to S-2 or other appropriate agency.
6. Report via unit SOP.

REFERENCES:

1. MCWP 3-16.1 Artillery Operations
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
3. MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces

Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Ensure crater analysis is accomplished using one of the following methods: Fuze Furrow and Center of Crater, Side Spray, Ricochet Furrow, Main Axis, Splinter Groove, or Fuze Tunnel.

ARILLERY T&R MANUAL

CHAPTER 14

MOS 0814 INDIVIDUAL EVENTS

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ARTILLERY T&R MANUAL

CHAPTER 14

0814 MOS INDIVIDUAL EVENTS

1400. PURPOSE. This chapter details the individual events that pertain to the community. These events are linked to a service-level Mission Essential Tasks (MET). This linkage tailors individual training for the selected MET. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

14001. 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 or military occupational field (0814). The second four digits represent the functional or duty area. The last four digits represent the level, and identifier number of the event. Every individual event has an identifier number from 000 to 999.

14002. INDEX OF 1000-LEVEL EVENTS

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14003. 1000-LEVEL EVENTS

0814-LAUN-1001: Perform Preventive Maintenance Checks and Services (PMCS) on HIMARS launcher chassis

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M142 High Mobility Artillery Rocket System (HIMARS) Launcher, required tools and equipment.

STANDARD: Ensuring checklist is completed according to the reference, TM 9-2300-310-14&P.

PERFORMANCE STEPS:

1. Perform before operations PMCS.
2. Perform during operations PMCS.
3. Perform after operations PMCS.
4. Perform weekly PMCS.
5. Perform monthly PMCS.
6. Maintain Basic Issue Items.
7. Submit checklist to platoon leadership.

REFERENCES:

1. 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

0814-LAUN-1002: Perform Preventive Maintenance Checks and Services (PMCS) on the M142 launcher

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M142 HIMARS launcher, required tools and equipment.

STANDARD: Ensuring checklist is completed according to the reference, TM 9-1055-1646-13&P.

PERFORMANCE STEPS:

1. Perform Before Operations PMCS.
2. Perform During Operations PMCS.
3. Perform After Operations PMCS.
4. Perform Weekly PMCS.
5. Perform Monthly PMCS.
6. Comply with Launcher Module (LM) PMCS instructions.
7. Maintain Basic Issue Items.
8. Submit checklist to platoon leadership.

REFERENCES:

1. 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

0814-LAUN-1003: Install/operate vehicle mounted Single Channel Ground Radio and Airborne Radio System (SINCGARS)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical vehicle with radio equipment.

STANDARD: To establish communications with another station.

PERFORMANCE STEPS:

1. Install radios and its components.
2. Load crypto (if applicable).
3. Configure net ID.
4. Conduct communications check.

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)
-

0814-LAUN-1004: Initialize Universal Fire Control System (UFCS)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M142 HIMARS Launcher, loaded rocket pod, and a Rugged Memory Unit (RMU).

STANDARD: Establishing an operational ready launcher within 15 minutes.

PERFORMANCE STEPS:

1. Turn on power switch.
2. Update system parameters.
3. Standby for mission processing.

REFERENCES:

1. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Time starts when the gunner turns on the power switch; time stops when the launcher is operational ready

0814-LAUN-1006: Operate Vehicle Intercom Communications III (VIC-III) system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical vehicle, VIC-III, SINCGARS radio(s), frequency or NET ID.

STANDARD: Establishing internal and external communications conducted with use of Combat Vehicle Crewman Helmet.

PERFORMANCE STEPS:

1. Power up the Master Control Station and program.
2. Select functions on the Full Function Crew Station.
3. Using the Combat Vehicle Crewman helmet, conduct an internal communications check with another intercom station.
4. Conduct an external communications check over the radio net via the VIC-III.

REFERENCES:

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

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

0814-LAUN-1008: Operate the Universal Fire Control System (UFCS)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M142 HIMARS launcher, Survey Control Point, Operations Area Database and Fire Control System.

STANDARD: To maintain operational readiness and firing capability.

PERFORMANCE STEPS:

1. Create and manage databases.
2. Operate in GPS-aided mode.
3. Operate in inertial mode.
4. Troubleshoot FCS malfunctions using the Commanded Built in Test (CBIT) program under the supervision of launcher chief.
5. Correctly shut down the FCS.

REFERENCES:

1. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

0814-LAUN-1009: Execute a digital fire mission received from the Fire Direction Center (gunners duties)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an operational ready M142 HIMARS launcher, uploaded rocket pod, operational communication equipment, and digital/voice communication with FDC.

STANDARD: Within 2 minutes in daylight/darkness and 3 minutes CBRN MOPP level 4 conditions.

PERFORMANCE STEPS:

1. Acknowledge receipt of mission.
2. Directs driver to within +/-100 mils of parking heading.
3. Lay the launcher.
4. Arm and fire at launcher chief's direction.
5. Safe and stow launcher.
6. Return to hide /reload point.

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	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
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when launcher acknowledges receipt of fire mission. Time stops when first rocket is fired for a fire when ready mission, or is laid for all other fire missions.
2. Some of these iterations will be performed during darkness and CBRN conditions.

0814-LAUN-1010: Execute a voice fire mission received from the Fire Direction Center (gunners duties)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an operational ready M142 HIMARS launcher, uploaded rocket pod, operational communication equipment, and voice communication with FDC.

STANDARD: Within 2 minutes in daylight/darkness and 3 minutes CBRN MOPP level 4 conditions.

PERFORMANCE STEPS:

1. Upon receipt of the mission manually enter fire mission data, navigate through Fire Control Panel (FCP).
2. Direct driver to +/-100 mils of parking heading.
3. Lay the launcher.
4. Arm and fire at launcher chief's direction.
5. Safe and stow launcher.
6. Return to hide/reload point.

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	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
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. Time starts when launcher acknowledges receipt of fire mission. Time stops when first rocket is fired for a fire when ready mission, or is laid for all other fire missions.
2. Some of these iterations will be performed during darkness and NBC conditions.

0814-LAUN-1011: Record missions fired

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a HIMARS Fire Mission Log and mission firing data.

STANDARD: Accurately and legibly record firing data.

PERFORMANCE STEPS:

1. Record data on the fire mission log.
2. Respond to the 11 fire command elements.
3. State firing reports.
4. Respond to planned targets.
5. Complete the HIMARS Fire Mission Log.

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. MCIP 3-16.02 Marine Rocket Battery Operations

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

0814-LAUN-1014: Prepare re-supply system for reload operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Re-Supply System (RSS), an assistant, uploaded rocket pods, Basic Issue Items (BII), and a suitable reload point.

STANDARD: Within 5 minutes in daylight and 8 minutes in darkness.

PERFORMANCE STEPS:

1. Establish security.
2. Select suitable terrain within the reload point.
3. Prepare RSS for operations.

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
2. TM 10629-10C Operator Manual for the Truck, Cargo, 7-Ton
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 Section
HA51- Rocket, 298mm Tactical Unitary M31A1	12 rockets 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 parking brake is set and stops when crane is centered over the rocket pod-lifting bar.
2. Task is performed with both manual and remote controls.
3. Physical Constraints: Marines are required to shift rocket pods for proper loading and unloading procedures.

0814-LAUN-1016: Troubleshoot digital communications

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a M142 HIMARS launcher and all communication assets.

STANDARD: Restoring digital communications with the platoon operations center (POC).

PERFORMANCE STEPS:

1. Verify Fire Control System communications database is in accordance with the platoon digital communications plan.
2. Take corrective action upon identification of the problem by inspecting hardware set up and radio settings.
3. Conduct digital communication check with FDC.

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
Facility Code 17671 Field Artillery Indirect Fire Range

0814-LAUN-1017: Perform operator level maintenance on vehicle-mounted SINGGARS radios and the VIC-III

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M142 High Mobility Artillery Rocket System Launcher (HIMARS) with radios, tools and equipment.

STANDARD: Ensuring corrective and preventative maintenance on the SINGGARS; antennas, vehicle mount and equipment is performed.

PERFORMANCE STEPS:

1. Conduct scheduled PMCS on SINGGARS and VIC-III in accordance with applicable TMs.
2. Conduct operator level corrective maintenance (CM) and perform follow on procedures.
3. Record deficiencies in equipment record jacket and report to higher.
4. Induct equipment into maintenance cycle if CM is beyond operator level.

REFERENCES:

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

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Any necessary corrective action beyond operator level identified and recorded; ensure maintenance records are passed to platoon leadership.

0814-LAUN-1018: Prepare re-supply system for transportation of rocket/missile ammunition

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a complete Re-Supply System, driver, rocket pods, Basic Issue Items (BII), required Hazardous Cargo Forms and Placards.

STANDARD: Ensuring vehicle and ammunition is properly rigged for transport.

PERFORMANCE STEPS:

1. Prepare vehicle for ammunition transportation.
2. Ensure appropriate documents are present.
3. Inspect rocket pod for serviceability/type.
4. If ammunition is unserviceable notify higher HQ for further guidance.

REFERENCES:

1. JREGTO 3570.1 Standing Operating Procedures for Field Artillery Safety
 2. TM 10629-10C Operator Manual for the Truck, Cargo, 7-Ton
 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
-

0814-LAUN-1019: Land navigate in a tactical vehicle

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical vehicle, a map of the position area, Universal Fire Control System (UFCS), and points for navigation.

STANDARD: Ensuring successful navigation between two or more points from a vehicle.

PERFORMANCE STEPS:

1. Locate current position with a map, UFCS within 100m.
2. Plot points on the map.
3. Determine prominent terrain features.
4. Determine distance from point A to point B.
5. Navigate from point A to point B.

REFERENCES:

1. FM 3-25.26 Map Reading and Land Navigation

2. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17412 Land Navigation Course
Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces

14004. INDEX OF 2000-LEVEL EVENTS

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14005. 2000-LEVEL EVENTS

0814-AMMO-2036: Supervise battery Ammunition Holding Area (AHA) operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a tactical scenario, and a HIMARS ammunition platoon.

STANDARD: Ensuring AHA is tactically organized for safe and efficient, ammunition operations.

PERFORMANCE STEPS:

1. Ensure the timely delivery of ammunition to reload point.
2. Ensure excessive amounts of ammunition are not downloaded.
3. Direct the pickup of all expended rocket pods.
4. Supervise the local security plan.
5. Ensure proper employment of crew served weapons established by security plan.
6. Maintain communications with BOC.
7. Supervise ammunition handling procedures.
8. Provide sustainment training to new crews.

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-15.1 Machineguns and Machinegun Gunnery
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. Physical Constraints: Marines are required to lift and maneuver heavy machine guns.
2. Physical Constraints: Marines are required to shift rocket pods for proper loading and unloading procedures.

0814-LAUN-2001: Operate the HIMARS carrier vehicle

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M142 HIMARS launcher.

STANDARD: In accordance with MCRP 4-11.3F.

PERFORMANCE STEPS:

1. Operate carrier vehicle on road.
2. Operate carrier vehicle off road.
3. Operate in an administrative convoy.
4. Operate in a tactical convoy.
5. Operate carrier vehicle during fire missions.
6. Operate carrier vehicle during reload operations.
7. Operate carrier vehicle in hours of darkness.

REFERENCES:

1. MCRP 4-11.3F Convoy Operations Handbook
2. 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 17671 Field Artillery Indirect Fire Range
Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17906 Wheeled Vehicle Drivers Course

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Some of these iterations will be performed during darkness and NBC conditions.

0814-LAUN-2002: Use a HIMARS Safety-T

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: CPL, SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a Safety-T and firing data.

STANDARD: Verifying if firing data is safe or unsafe.

PERFORMANCE STEPS:

1. Identify all required information on a Safety-T.

2. Verify Safety-T is current and valid.
3. Identify unsafe fire mission data.
4. If data is unsafe, command "check-firing" to the FDC.

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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

0814-LAUN-2003: Prepare HIMARS launcher carrier vehicle for air transport
(driver's duties)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an aircraft or a simulated environment, M142 HIMARS
launcher, a crew, and Basic Issue Items (BII).

STANDARD: To rig the launcher for embarkation on aircraft in accordance with
TM 9-1055-1646-13&P.

PERFORMANCE STEPS:

1. Compress suspension springs.
2. Deflate front tires.
3. Install locking pins.
4. Remove weapons mount (if required).

REFERENCES:

1. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for
HIMARS
2. 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
Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17911 Air Transport Mockup

0814-LAUN-2004: Prepare HIMARS launcher for air embarkation (gunner's duties)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: CPL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a HIMARS Launcher with loaded GPS keys, and a rocket pod.

STANDARD: To rig the launcher for embarkation on aircraft in accordance with TM 9-1055-1646-13&P.

PERFORMANCE STEPS:

1. Purge GPS crypto keys.
2. Enter coordinates for forward landing strip into system parameters.
3. Power down fire control system.
4. Assist driver and launcher chief.

REFERENCES:

1. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS
2. 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
Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17911 Air Transport Mockup

0814-LAUN-2005: Navigate with Defense Advanced GPS Receiver (DAGR)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: CPL, SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a DAGR, start point, destination grids, and operation area.

STANDARD: Current position located using Figure of Merit of 1 (FOM 1), within 25 meters successfully navigate from point to point using waypoint.

PERFORMANCE STEPS:

1. Initialize DAGR for operation.

2. Locate current position.
3. Plot points on map.
4. Manage waypoint menu.
5. Navigate from point-to-point using route function.

REFERENCES:

1. FM 3-25.26 Map Reading and Land Navigation
2. TM 11-5820-1172-13 Operator and Maintenance Manual, Defense Advanced GPS Receiver (DAGR) Satellite Signals Navigation Set AN/PSN-13

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

Facility Code 17420 Maneuver/Training Area, Heavy Forces
Facility Code 17671 Field Artillery Indirect Fire Range
Facility Code 17412 Land Navigation Course

0814-LAUN-2006: Operate the AN/CYZ-10 with SINCGARS and UFCS

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: CPL, SGT, SSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a M142 HIMARS launcher and equipment.

STANDARD: Properly operating and transferring load set with crypto fill to SINCGARS.

PERFORMANCE STEPS:

1. Initialize AN/CYZ-10.
2. Connect to a radio.
3. Transfer data.
4. Disconnect cable and properly shut down.

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
Facility Code 17671 Field Artillery Indirect Fire Range

0814-LAUN-2007: Prepare the re-supply system for air transport

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a complete Re-Supply System (RSS), a crew, and Basic Issue Items (BII).

STANDARD: To rig the RSS for embarkation on aircraft in accordance with TM 10629-CD.

PERFORMANCE STEPS:

1. Remove ring mount.
2. Break down cab.
3. Remove exhaust stack.
4. Deflate tires.
5. Ensure equipment is stowed.

REFERENCES:

1. TM 10629-CD Interactive Electronic Technical Manual (IETM) for Re-Supply Vehicle
 2. TM 10921A-13&P System Operation Maintenance Manual and repair parts and special tools list for HIMARS Re-Supply Trailer
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0814-LAUN-2008: Conduct gunner duties for launcher reload operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL, CPL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an operational M142 HIMARS launcher and a rocket pod.

STANDARD: In accordance with MCIP 3-16.02.

PERFORMANCE STEPS:

1. Select reload right or left as directed by launcher chief.
2. Unstow and prepare the boom controller.
3. Following direction of Launcher chief, position boom over new rocket pod and lift into LM.
4. Stow boom controller.
5. Stow LM from Fire Control Panel at direction from launcher chief.

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:

RANGE/TRAINING AREA:

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Some of these iterations will be performed during darkness and NBC conditions.

0814-LAUN-2011: Conduct security operations

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

MOS PERFORMING: 0814

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a High Mobility Multipurpose Wheeled Vehicle (HMMWV) with associated equipment.

STANDARD: Providing security for active launchers and in accordance with the local security plan.

PERFORMANCE STEPS:

1. Identify danger areas.
2. Identify likely avenues of approach.
3. Conduct patrols as directed.
4. Establish a principal Direction of Fire (PDF).
5. Brief crew on adjacent and higher unit's security plan.
6. Submit complete security diagram to platoon leadership.

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-15.1 Machineguns and Machinegun Gunnery
3. TM 2320-10/6B Truck, Utility 1 1/2 Ton (HMMWV)

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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 and maneuver heavy machine guns.

0814-LAUN-2014: Conduct occupation of operations area

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M142 HIMARS Launcher, communication equipment, crew, unit Standing Operating Procedures (SOP), training area, and movement order.

STANDARD: Within a time limit of 15 minutes.

PERFORMANCE STEPS:

1. Conduct map reconnaissance of operation area (OpArea).
2. Select firing points while coordinating with adjacent launchers.
3. Select hide locations.
4. Select route to reload points.
5. Identify potential threats/hazards in OpArea.
6. Select emergency displacement routes.
7. Supervise the transmission of the database update and launcher status to the fire direction center.

REFERENCES:

1. FM 3-25.26 Map Reading and Land Navigation
2. FM 3.09-60 Multiple Launch Rocket System (MLRS) Techniques, Tactics and Procedures (TTP)
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:

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 crosses the release point and stops when the launcher crew successfully transmits the launcher location database to fire direction center.

2. Some of these iterations will be performed during darkness and NBC conditions.

0814-LAUN-2015: Input masking data

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a HIMARS Fire Control System, M2 compass, a firing point with an immediate mask, a gunner, and a map.

STANDARD: Per the reference, MCIP 3-16.02.

PERFORMANCE STEPS:

1. Measure left and right azimuth utilizing the M2 compass.
2. Measure vertical angle to immediate crest utilizing the M2 compass.
3. Record masking data.
4. Enter data into the Universal Fire Control System.
5. Notify platoon operations center.

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-16.3 Tactics, Techniques, and Procedures for Field Artillery Cannon Battery
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
Facility Code 17671 Field Artillery Indirect Fire Range

0814-LAUN-2016: Compute HIMARS safety

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a HIMARS launcher, a HIMARS safety certified Launcher Chief, Surface Danger Zone (SDZ) firing point(s) and target locations.

STANDARD: As directed by the Fire Direction Center (FDC) for both OPAREA and Firing Point safety methods within 1 mil.

PERFORMANCE STEPS:

1. Receive SDZ firing points and target locations from FDC.
2. Verify valid MET and correct ammunition type with FDC.
3. Compute ballistic solution.
4. Transmit solution data to FDC.

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

0814-LAUN-2017: Supervise the execution of a digital/voice fire mission

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an operational ready M142 HIMARS Launcher, operational communication equipment, digital and voice communication with FDC.

STANDARD: Ensuring correct actions are taken upon receipt of the fire mission.

PERFORMANCE STEPS:

1. Supervise gunners and drivers actions upon receipt of fire mission.
2. Supervise gunners' manual entry of the fire mission data into the Fire Mission Data base (Voice).
3. Supervise the movement to the firing point.
4. Execute the fire mission in accordance with method of control.
5. Verify technical firing solution is safe on the safety-t.
6. Check the fire control panel for possible misfire/hangfire or duds.
7. Supervise the safe stowing of the weapon while checking for tube and grassfires.
8. Displace from firing point to hide point or reload point as required.

REFERENCES:

1. JREGTO 3570.1_ Standing Operating Procedures for Field Artillery Safety
2. MCIP 3-16.02 Marine Rocket Battery Operations

0814-LAUN-2020: Conduct launcher chief duties during reload operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an operational M142 HIMARS launcher, SINCGARS, crew, and a rocket pod.

STANDARD: To safely and successfully upload a rocket pod.

PERFORMANCE STEPS:

1. Guide launcher into reload point:
2. Inspect the rocket pod that will be uploaded.
3. Direct the gunner to initiate reload.
4. Conduct reload.

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
3. 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>
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: Physical Constraints: Marines are required to shift rocket pods for proper loading and unloading procedures.

0814-LAUN-2027: Supervise security team operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a HMMWV, three Marines, organic crew-served weapons, training area, navigational aids, and current or future operations order.

STANDARD: Providing security for active launchers and in accordance with the local security plan.

PERFORMANCE STEPS:

1. Brief teams and supervise execution of security plan; maintain positive communication.
2. Adjust security posture and plan as tactical situation develops.
3. Ensure coordination with higher, to include completed security diagram.

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCWP 3-15.1 Machineguns and Machinegun Gunnery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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 and maneuver heavy machine guns.

0814-LAUN-2028: Coordinate sustainment of HIMARS launcher section

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a HIMARS launcher, crew, and operational communication equipment.

STANDARD: Ensuring logistical support is coordinated and received for the section without interrupting the operational tempo.

PERFORMANCE STEPS:

1. Supervise operator level maintenance checks and services on weapons, vehicles, and communications equipment; report and evacuate items requiring higher echelon maintenance.
2. Ensure section has all required supplies and support to sustain operations; mission will dictate levels of supply needed.
3. Inform platoon operations center of shortages immediately.

4. Coordinate the replenishment of the HIMARS section as needed.

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: Physical Constraints: Marines are required to lift and maneuver heavy machine guns.

0814-LAUN-2029: Lead Advance Party

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: The platoon has received a movement order that requires displacement.

STANDARD: Ensuring new position area and tactical control measures are tenable and platoon advance party communicates changes to main body.

PERFORMANCE STEPS:

1. Perform map, ground, and/or air reconnaissance as time and resources permit.
2. Designate tactical control measures.
3. Brief Advance Party and prepare for tactical movement.
4. Supervise tactical movement and ground reconnaissance of route to proposed position area.
5. Supervise security sweep and ground reconnaissance of the position; verify tactical control measures are suitable; if position is untenable notify main body and move to alternate position.
6. Communicate changes to Platoon Main Body as required.
7. Prepare to guide main body into position area.

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:

RANGE/TRAINING AREA:

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

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Some of these iterations will be performed during darkness and NBC conditions.

0814-LAUN-2030: Lead platoon main body in occupation of position area

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Platoon has received a movement order that requires its displacement, advance party has selected and swept a new position, and the main body has arrived at the designated release point.

STANDARD: Occupying the new position area to conduct follow on operations in accordance with MCIP 3-16.02.

PERFORMANCE STEPS:

1. Communicate arrival at release point.
2. Supervise occupation of platoon main body.
3. Send occupation reports to higher headquarters as required.
4. Ensure platoon is prepared to process fire missions.

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery 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: Some of these iterations will be performed during darkness and NBC conditions.

0814-LAUN-2031: Supervise operations in the position area

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a tactical scenario with an occupied and fire capable platoon.

STANDARD: Ensuring position area organization and tactical control measures support the mission.

PERFORMANCE STEPS:

1. Supervise subordinate element movement internal and external to the position area.
2. Maintain situation map with subordinate unit locations.
3. Supervise fire mission, logistics, and security within the PA.
4. Ensure communications are maintained with subordinate and higher units and tactical information is disseminated as required.

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery 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: Some of these iterations will be performed during darkness and NBC conditions.

0814-LAUN-2032: Coordinate logistics for the platoon

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: The platoon is conducting continuous combat operations.

STANDARD: Providing logistical support without interruption of the operational tempo.

PERFORMANCE STEPS:

1. Supervise operator level maintenance checks and services on weapons, vehicles, and communications equipment; report and evacuate items requiring higher echelon maintenance.
2. Report emergency re-supply requirements to battery leadership immediately.
3. Establish re-supply points and coordinate rocket/missile reload. Coordinate section supply; report all supply shortages to the battery leadership.
4. Manage maintenance records.
5. Coordinate equipment recovery.
6. Coordinate medical support for the platoon 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.

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCRP 4-11.3F Convoy Operations Handbook
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

0814-LAUN-2033: Supervise operator level maintenance on organic equipment

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1. month

MOS PERFORMING: 0814

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given the unit Standing Operating Procedures (SOP).

STANDARD: Ensure all maintenance is performed at the correct level; all records are submitted to higher headquarters.

PERFORMANCE STEPS:

1. Verify proper PMCS and corrective maintenance is conducted in accordance with the appropriate technical manual.
2. Verify maintenance records are current and properly maintained.
3. Verify higher echelon maintenance equipment is inducted into the correct maintenance cycle.
4. Verify proper usage of maintenance management forms for the requisition of repair parts.
5. Verify deficiencies have been corrected.
6. Conduct inspections to determine adequacy of maintenance programs.

REFERENCES:

1. MCWP 3-15.1 Machineguns and Machinegun Gunnery
2. TM 10920A-10 System Operation Manual with components list for HIMARS 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 2320-10/6B Truck, Utility 1 1/2 Ton (HMMWV)
5. TM 9-1055-1646-13&P Interactive Electronic Technical Manual (IETM) for HIMARS
6. 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
Facility Code 17671 Field Artillery Indirect Fire Range

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Physical Constraints: Marines are required to lift and maneuver heavy machine guns.

0814-LAUN-2034: Supervise security for the platoon

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a training area, map and navigational aids, a tactical scenario, and unit Standing Operating Procedures (SOP).

STANDARD: Ensuring an effective defensive security plan is selected and supervised

PERFORMANCE STEPS:

1. Select an appropriate course of action based on the tactical scenario.
2. Establish signal plan and maintain communications with security teams.
3. Protect launchers and command and control assets.
4. Conduct coordination with higher and adjacent platoon, to include submission of security diagram to the battery.

REFERENCES:

1. MCIP 3-16.02 Marine Rocket Battery Operations
2. MCRP 4-11.3F Convoy Operations Handbook
3. MCWP 3-15.1 Machineguns and Machinegun Gunnery

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:

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 and maneuver heavy machine guns.

0814-LAUN-2035: Supervise logistics for the battery

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: MSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a Unit Standing Operating Procedures (SOP), a tactical scenario, and the BOC.

STANDARD: Providing logistical support without interruption of the operational tempo.

PERFORMANCE STEPS:

1. Supervise operator level maintenance checks and services on weapons, vehicles, and communications equipment; report and evacuate items requiring higher echelon maintenance.
2. Coordinate Field Service Representative (FSR) support for the firing platoons.
3. Coordinate resupply points and coordinate rocket/missile reloads.
4. Coordinate refuel points for all vehicles.
5. Coordinate section supply; report all supply shortages to the battery leadership.
6. Report emergency re-supply requirements to higher headquarters immediately.
7. Coordinate equipment recovery support.
8. Coordinate medical support for the battery and plan for air and ground MedEvac.
9. Ensure Basic Allowance (BA) and Critical Supply Rates (CSR) are known, followed, and reported according to SOP.
10. Ensure communications are maintained with higher HQ and/or supporting CSS unit on appropriate logistics NET.

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

0814-LAUN-2037: Supervise a tactical road march

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0814

GRADES: SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a HIMARS platoon, ammunition and equipment.

STANDARD: Navigating the platoon to the specified position within the standards contained in the movement order.

PERFORMANCE STEPS:

1. Supervise map, ground, and or air reconnaissance as resources.
2. Supervise type of march being used.
3. Supervise rehearsals as time permits.
4. Supervise the preparation of vehicles for movement.
5. Ensure start point is crossed on time and reports are submitted to higher headquarters as required.
6. Ensure march discipline, communications, convoy interval, and 360-degree security while on the march are maintained.
7. Supervise the execution of appropriate immediate action drills.

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:

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 lift and maneuver heavy machine guns.
 2. Some of these iterations will be performed during darkness and NBC conditions.
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