

Report Date: 13 Mar 2015  
Summary Report for Crew Drill Drill Task  
Drill Number: 07-4-D9275  
Drill Title: Lay 81mm Mortar for Large Deflection Change  
Status: Approved  
Status Date: 13 Mar 2015

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**Distribution Restriction:** Approved for public release; distribution is unlimited.

**Destruction Notice:** None

**Foreign Disclosure: FD6 -** This product/publication has been reviewed by the product developers in coordination with the MCoE G2 foreign disclosure authority. This product is releasable to students from foreign countries on a case-by-case basis.

**Drill Data**

**Proponent:** 07 - Infantry (Collective)

**Drill Type:** Crew Drill

**Approved:**

**Obsolete:**

**Restricted Read:** No

**Route To TMD Reviewer:** No

**TMD Concurrence:**

**TMD Comments:**

**Safety Level:** Low

**Conditions:**

The squad receives a fire command requiring a deflection change of more than 200 mils but less than 300 mils and an elevation change of more than 100 mils but less than 200 mils. The squad leader gives the command for the new deflection and elevation change. Some iterations of this task should be performed in MOPP 4.

**Standards:**

The mortar squad places the correct deflection and elevation are emplaced on the sight. Bubbles are centered on the sight. The vertical crossline is within +/- 2 mils of the left edge of the aiming post (or of a compensated sight picture).

**Drill Statements:**

<b>DANGER</b>
NONE
<b>WARNING</b>
NONE
<b>CAUTION</b>
NONE

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with ATP 5-19, Risk Management. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination. .

**Environment:** Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT. .

**Cue:** This drill begins on the command of the squad leader.

**Coaching Point:** NONE

## TASK STEPS

- \* 1. Squad leader issues fire command to the squad.
2. Squad members repeat fire command to the squad leader.
3. Gunner places the announced deflection and elevation on the sight.
4. Gunner turns the elevation hand crank until the elevation bubble is approximately centered. He centers the buffer carrier.
5. Assistant gunner moves into position to the front of the mount, and kneels.
6. Assistant gunner grasps the mount (palms up) and lifts legs until they are clear of the ground to permit lateral movement.
7. Gunner and assistant gunner move the mortar and align the sight on the aiming posts.
8. Assistant gunner tries to maintain the traversing gear assembly on a horizontal plane. To make the shift, the gunner places the fingers of the right hand in the muzzle and his left hand on the elevating leg assembly.
9. Gunner announces to the assistant gunner to lower the mount when the vertical crossline is within 20 mils of the aiming post.
10. Gunner centers the elevation bubble and cross-levels the weapon.
11. If the gunner finds he does not have a proper sight picture, he performs the following tasks:
  - a. Traverses half the distance to get a proper sight picture.
  - b. Levels the sight.
  - c. Divides the distance in half again and levels again.
  - d. Repeats the process until he has a proper sight picture.
12. Gunner announces, "UP."

(Asterisks indicates a leader performance step.)

## TASK MEASURES

1. The Squad leader issued a fire command.
  2. Squad members repeated fire command.
  3. Gunner placed the announced deflection and elevation on the sight.
  4. Gunner turned the elevation hand crank until the elevation bubble was approximately centered.
  5. Assistant gunner moved into position to the front of the mount, and kneels.
  6. Assistant gunner grasped the mount (palms up) and lift the legs.
  7. Gunner and assistant gunner moved the mortar and aligned the sight on the aiming posts.
  8. Assistant gunner tried to maintain the traversing gear assembly on a horizontal plane.
  9. Gunner announced to the assistant gunner to lower the mount.
  10. Gunner centered the elevation bubble and cross-leveled the weapon.
  11. The gunner had proper sight picture.
  12. Gunner announced, "UP."
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**Talk:**

**a.Orientation:** The objective of this squad drill is to provide the squad with basic skills necessary to execute a fire mission with a large change in deflection and elevation.

**b.Safety:** None

**c.Demonstration:** If another squad has successfully performed this drill, have that squad demonstrate it. During the demonstration, explain what is being done and why, using the performance measures as a guide. After the demonstration, summarize the actions performed by the demonstrating squad.

**d.Explanation:** (1)Refer to the performance measures and explain what the squad leader, ammunition bearers, gunner, and assistant gunner is required to do upon the fire command.

(2) Ensure that the squad leader and members know their duties and responsibilities pertaining to each portion of the drill.

(3) Ask if there are any questions pertaining to the drill. If so, ensure that all questions are correctly answered before beginning to train the drill.

**e.Unit Instructions:** a. Resources. 81-mm mortar and all other needed Table(s) of Organization and Equipment (TOE) assigned personnel and equipment.

b. Training Site: A mortar firing range or training area with sufficient mask and overhead clearance.

c. Unit Instructions. Squad receives a fire mission that requires a large change in deflection (200 - 300 mils) and elevation (100 - 200 mils).

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**Walk:**

1. Refer to the performance measures and have each squad member perform his part slowly at first as the leader talks him through.
  2. NONE
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**Run:**

**a.Run-Through Instructions:** The soldiers should practice this drill until they can perform it according to standard, without using notes. The initial run-through exercise should be conducted slowly. The soldiers should change positions in order to learn all steps and standards.

**b.Coaching Point:** NONE

**c.Performance Instructions:** When the soldiers can perform this drill according to the standard, they should be evaluated by the platoon leader or sergeant.

**Equipment (LIN)**

Step ID	LIN	Nomenclature	Qty
No equipment specified			

**Materiel Items (NSN)**

Step ID	NSN	LIN	Title	Qty
No materiel items specified				

**Support Personnel**

Personnel Type	Description	School	Qty	Remarks
No support personnel specified				

**TADSS**

Step ID	TADSS ID	Title	Product Type	Qty
	07-13A	Mortar, Pneumatic/ M32	DVC	1
	07-13B	Pneumatic Mortar Trainer/ M32A1	DVC	1
	TASC-303-TBD-16	TNG DEVICE, MORTAR, 81MM, MOCK-UP (Local TADSS – Not in TSMATS/PAM 25-30)	TA	1

**Supporting Individual Tasks**

Step ID	Task ID	Status	Task Title
	071-074-0044	Approved	Supervise a Mortar Squad
	071-11C-0102	Approved	Lay an 81-mm Mortar for Deflection and Elevation
	071-11C-0302	Approved	Place a Mortar Fire Control (MFCS) System into Operation
	071-11C-0503	Approved	Reciprocally Lay a Mortar Using an M2 Aiming Circle
	071-11C-1000	Approved	Fire a Mortar
	071-11C-1001	Approved	Engage Targets with a 60-mm, 81-mm, or 120-mm Mortar Using Direct Lay
	071-11C-1006	Approved	Occupy a Mortar Firing Position by a Squad
	071-11C-1200	Approved	Occupy a Mortar Firing Position by a Section

**Prerequisite Individual Tasks**

Step ID	Task ID	Status	Task Title
No prerequisite individual tasks specified			

**Supporting Collective Tasks**

Step ID	Task ID	Status	Title
	07-3-3018	Approved	Fire Mortars by Direct Alignment (Section-Platoon)
	07-3-3054	Approved	Fire a Mortar Adjust Fire Mission (Section-Platoon)

**Prerequisite Collective Tasks**

Step ID	Task ID	Status	Title
No prerequisite collective tasks specified			

**Supporting Drill Tasks**

Step ID	Drill ID	Status	Drill Title
	07-4-D9339	Approved	Fire a Mortar

**OPFOR**

Task Number	Title	Status
71-0-0014	Disruption	Approved

**REFERENCES**

Step Number	Reference ID	Reference Name	Required	Primary
	ATTP 3-21.90	Tactical Employment of Mortars	No	No
	FM 3-22.90	Mortars	Yes	Yes

## Training Setup

A mortar firing range or training area with sufficient mask and overhead clearance.

## Training Facilities

Facility ID	Facility Name	Facility Type
No Training Facilities		

## DODIC

DODIC	Name	Qty
No DODIC		

## Associated Documents

Media ID	Media Type	Title	Subtitle
No Associated Documents			

## GLOSSARY TERMS

Glossary Term	Definition
No glossary terms specified	

## ACRONYMS AND ABBREVIATIONS

Acronym/Abbreviation	Definition
No acronyms/abbreviations specified	