

Report Date: 24 Mar 2015
Summary Report for Crew Drill Drill Task
Drill Number: 07-4-D9290
Drill Title: Perform Direct Alignment of a Carrier-Mounted Mortar
Status: Approved
Status Date: 24 Mar 2015

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 G-2 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 is conducting operations with the squad leader, acting as FDC and FO, commands the squad to engage a target visible only to him. He commands, SQUAD, DIRECT ALIGNMENT. Some iterations of this task should be performed in MOPP 4.

Standards:

The squad leader commands, SQUAD, DIRECT ALIGNMENT. The squad leader moves to a OP position 100 meters from the mortar position and places eye's on the enemy. The mortar squad conducts direct alignment IAW FM 3-22.90 and the unit standard operating procedures (SOP).

Drill Statements:

DANGER
NONE
WARNING
NONE
CAUTION
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: The squad leader initiates drill by giving the order, "SQUAD, DIRECT ALIGNMENT."

Coaching Point: NONE

TASK STEPS

- * 1. Squad leader commands, SQUAD, DIRECT ALIGNMENT.
- * 2. Squad leader moves to a vantage point within 100 meters of the mortar position or gun-target line.
- 3. Gunner places a deflection of 3200 mils on the M53 sight.
- * 4. Squad leader places an aiming device at his vantage point visible to the gunner.
- * 5. Squad leader positions himself so that he can sight along the aiming device to the target.
- 6. Squad leader reverses his position and sights back along the aiming device toward the mortar position without disturbing the aiming device.
- * 7. Squad leader signals to the gunner by voice command or arm-and-hand signals to align the mortar carrier with the aiming device.
- 8. Gunner transmits the squad leader's signal to the driver until the mortar carrier is aligned with the aiming device.
- * 9. Squad leader prepares and issues an initial fire command to include shell and fuze, method of fire, charge, and elevation--for example, HE QUICK, ONE ROUND, CHARGE ONE FOUR AND THREE-EIGHTHS, ELEVATION ZERO EIGHT HUNDRED.
- 10. Gunner places the announced elevation on the sight.
- 11. Ammunition bearer prepares ammunition IAW the announced shell and fuze, method of fire, and charge.
- 12. Gunner and assistant gunner level the mortar so that all bubbles are centered, and the vertical crossline of the sight is laid on the device.
- 13. Gunner announces, "Up," and signals to the squad leader "I am ready," if necessary.

(Asterisks indicates a leader performance step.)

TASK MEASURES

1. Squad leader command, SQUAD, DIRECT ALIGNMENT.
 2. Squad leader moved to a vantage point.
 3. Gunner placed a deflection of 3200 mils on the M53 sight.
 4. Squad leader placed an aiming device at his vantage point.
 5. Squad leader positioned himself so that he could sight along the aiming device.
 6. Squad leader reversed his position.
 7. Squad leader signaled to the gunner by voice command or arm-and-hand signals.
 8. Gunner transmitted the squad leader's signal to the driver.
 9. Squad leader prepared and issued an initial fire command.
 10. Gunner placed the announced elevation on the sight.
 11. Ammunition bearer prepared ammunition.
 12. Gunner and assistant gunner leveled the mortar.
 13. 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 lay a carrier mounted mortar using direct alignment.

b.Safety: The squad leader and members must ensure that the mask and overhead clearance are sufficient.

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, gunner, assistant gunner, and ammunition bearer is required to do upon hearing the command to "SQUAD, DIRECT ALIGNMENT."

(2) Ensure that the squad leader and squad 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. Mortar carrier, mortar, ammunition, and all other required 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. The squad is conducting fire missions and the squad leader gives the command "SQUAD, DIRECT ALIGNMENT."

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.

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

Supporting Individual Tasks

Step ID	Task ID	Status	Task Title
	071-11C-1002	Approved	Refer and Realign Aiming Post
	071-11C-1006	Approved	Occupy a Mortar Firing Position by a Squad
	071-11C-1008	Approved	Lay a Mortar Using Direct Alignment
	071-11C-1200	Approved	Occupy a Mortar Firing Position by a Section
	071-11C-1207	Approved	Adjust Mortar Fire Using Direct Alignment

Prerequisite Individual Tasks

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

Supporting Collective Tasks

Step ID	Task ID	Status	Title
	07-3-1360	Approved	Operate a Mortar Platoon by Split Sections(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
No supporting drill tasks specified			

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	Yes	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	