



Australian Government

Department of Education, Employment and Workplace Relations

PUADEFCA412B Operate a mortar

Revision Number: 1

PUADEFCA412B Operate a mortar

Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

This unit covers the competency required to operate a *mortar* in the Australian Defence Force (ADF).

The individual will be under direct supervision, usually as part of a team and will usually operate under direct Orders for Opening Fire and in accordance with the Rules of Engagement.

Application of the Unit

Application of the Unit

The application of this unit in the workplace - the environments, complexities and situations involved - will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

This text will be useful for the purposes of job descriptions, recruitment advice or job analysis; where possible, it will not be too job specific to allow other industries to import it into other Training Packages, where feasible.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite Unit/s Nil

Employability Skills Information

Employability Skills This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit of Competency.

Performance Criteria describe the required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Position the weapon	<ul style="list-style-type: none">1.1 Weapon position is prepared for firing in accordance with <i>standard procedures</i>1.2 <i>Ancillary equipment</i> is prepared for use and operated as required or directed1.3 Weapon is prepared for firing in accordance with standard procedures1.4 Occupational health and safety (OH&S) requirements and recognised safety precautions are applied throughout the operation
2. Aim the weapon	<ul style="list-style-type: none">2.1 Sighting equipment is prepared for use and operated as required or directed2.2 <i>Firing data</i> is calculated both manually and electronically, and communicated to supervisor2.3 Mortar is aimed and adjusted as directed in accordance with standard procedures
3. Fire the mortar	<ul style="list-style-type: none">3.1 <i>Ammunition</i> is handled and prepared under supervision and in accordance with standard procedures3.2 Ammunition is visually inspected and <i>defects</i> are reported to supervisor3.3 <i>Weapon drills</i> are conducted in accordance with standard procedures3.4 Mortar is fired in an operational environment and in accordance with orders
4. Maintain and stow the mortar	<ul style="list-style-type: none">4.1 Weapon and associated equipment are cleaned and serviced as required4.2 Defects are identified and rectified within limits of authority or reported to supervisor4.3 Documentation is completed in accordance with standard procedures4.4 Mortar is secured in accordance with standard procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level, required for this unit.

Required Skills

- achieve the required effects of fire
- apply battlecraft
- apply fieldcraft
- apply recognised safety precautions
- handle weapons safely in an operational environment
- interpret fire control orders

Required Knowledge

- battlecraft
- characteristics, technical capabilities, effects, employment and limitations of mortars and ammunition
- fieldcraft
- OH&S requirements
- recognised safety precautions
- target indication procedure
- team work
- weapon drills

Evidence Guide

EVIDENCE GUIDE

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EVIDENCE GUIDE

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Assessment must confirm the ability to carry out all weapon drills as listed in the Range Statement; to work as part of a team; to fire the weapon using, as a minimum, high explosive ammunition; and to complete a variety of firing data calculations as listed in the Range Statement.

Assessment must be conducted by day and night.

Consistency in performance

Competency should be demonstrated by day and night over a period of live firing missions using a variety of ammunition types.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed using live ammunition and in a simulated operational threat environment. The mortar operator should be exposed to the extremes of the operational environment where a person is under physical and mental stress. The context of assessment would usually be simulated due to the nature of this high-risk environment.

Assessment must be conducted by day and night.

Specific resources for assessment

Access to a mortar, ammunition and a live firing range.

Guidance information for assessment

Information that will assist or guide assessment will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

Range Statement

RANGE STATEMENT

The Range Statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. ***Bold italicised*** wording in the Performance Criteria is detailed below.

Mortar may include	81 mm calibre
Standard procedures may include	Australian Standards Defence Instructions Doctrinal pamphlets Job guides, other publications Manufacturers' handbooks, industry specifications and technical instructions OH&S regulations Organisational policies and procedures Procedure manuals Relevant local government by-laws Relevant state/territory or federal legislation Routine Orders Standing Operating Procedures Standing Orders Written and verbal orders
Ancillary equipment may include	Aiming devices Complete Equipment Schedule (CES) Night aiming devices Sighting systems
Firing data may include	Circular/rectangular sheath Coverage Datum Grids Intersection Linear Link shooting

RANGE STATEMENT

	Location
	Polar
	Proving the belt
	Shift
Ammunition may include	Anti tank High explosive (HE) Illumination Improved conventional munitions Precision guided munitions Smoke White phosphorus And may be used with fuse types: <ul style="list-style-type: none"> • delay • proximity • near surface burst super quick (point detonating/graze) • time
Ammunition defects may include	Corrosion Cracks Damaged charge bags Damaged packaging Rust Weeping
Weapon drills must include	Action Adjustment of scales Cease fire Firing Misfire Parallel Position aiming posts
Operator maintenance may include	Calibrating sights Cleaning

RANGE STATEMENT

	Lubricating
	Replacing broken firing pin

Unit Sector(s)

Not applicable.

Corequisite Unit/s

Co-requisite Unit/s	Nil
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