



Australian Government

Department of Education, Employment and Workplace Relations

DEFCA102B Operate and maintain armoured fighting vehicle weapon systems

Release: 1

DEFCA102B Operate and maintain armoured fighting vehicle weapon systems

Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

This unit covers the competency required to operate armoured fighting vehicle (AFV) direct fire weapon systems to effectively produce fire. Direct fire weapon systems are integral to and operated in conjunction with, the AFV. People who undertake this work will be part of an AFV crew. Direct fire is primarily used during conventional operations to establish fire supremacy in order to destroy the enemy's will to operate. It can also be applied in accordance with the Rules of Engagement during operations other than conventional war such as security and peace support.

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 DEFCA101B Operate and maintain an armoured fighting vehicle

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

- | ELEMENT | PERFORMANCE CRITERIA |
|---|---|
| 1. Prepare weapon systems for operations | <p>1.1 <i>Armoured fighting vehicle direct fire weapon systems</i> are prepared for the conduct of operations in accordance with <i>orders</i> and <i>standard procedures</i></p> <p>1.2 In-service <i>ammunition</i> is identified and handled in accordance with standard procedures</p> <p>1.3 <i>Occupational health and safety (OH&S) requirements and recognised safety precautions</i> including those contained in Australian Defence Force procedures, are applied throughout the operation in accordance with standard procedures</p> |
| 2. Operate armoured fighting vehicle weapon systems | <p>2.1 <i>Equipment</i> is operated to support weapon functions in accordance with standard procedures</p> <p>2.2 <i>Weapon drills</i> are conducted in accordance with standard procedures</p> <p>2.3 Targets are identified, acquired and engaged in accordance with <i>fire control orders</i></p> <p>2.4 Effective fire is applied in accordance with operational requirements and standard procedures</p> |
| 3. Maintain armoured fighting vehicle weapon systems | <p>3.1 Weapon systems are cleaned in accordance with operational requirements and standard procedures</p> <p>3.2 Weapon systems are <i>maintained</i> in accordance with operational requirements and standard procedures</p> <p>3.3 Documentation is completed and maintained in accordance with standard procedures</p> |

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required Skills

- apply operational safety
- apply relevant OH&S requirements
- carry out weapon drills
- conduct equipment maintenance
- identify regional armoured fighting vehicles and aircraft
- respond to fire control orders
- select and prepare ammunition
- use communication systems
- use equipment/instruments

Required Knowledge

- armoured fighting vehicle weapons drills and procedures
- characteristics, technical capabilities, effects, employment and limitations of relevant ammunition
- equipment
- characteristics, technical capabilities, effects, employment and limitations of relevant armoured fighting vehicle weapon systems
- characteristics, technical capabilities, effects, employment and limitations of relevant equipment
- fire control orders and fire discipline
- OH&S requirements
- regional armoured fighting vehicles and aircraft recognition reporting requirements and procedures associated with the operation of equipment
- safety precautions associated with the equipment

Evidence Guide

EVIDENCE GUIDE

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

Assessment must confirm the ability to apply effective fire in all conditions through the application of fire discipline in a live fire environment; to react instinctively to fire orders; to work as an effective member of the crew; and to operate the system without a breach of safety procedures.

Consistency in performance

Competency should be demonstrated over a range of operations or in simulated operational environments.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in an operational or simulated operational environment. The simulation should replicate the live environment where stress and fatigue are key features. The individual must be assessed as part of a crew.

Specific resources for assessment

Access to a simulated or actual operational environment, an armoured vehicle, its crew, weapons, equipment and ammunition.

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.

Armoured fighting vehicle may include	All current in-service equipment: <ul style="list-style-type: none"> • main battle tank family of vehicles (MBT FOV) • Australian light armoured vehicle family of vehicles (ASLAV FOV) • armoured personnel carrier family of vehicles (APC FOV)
Armoured fighting vehicle direct fire weapons systems may include	APC FOV weapons systems (e.g. 12.7 mm, 7.62 mm) ASLAV FOV weapon systems (e.g. 25 mm) MBT FOV weapon systems (e.g. 105 mm, 120 mm)
Operations may include	Defensive Offensive Operations other than war Security
Orders may include	Warning orders Quick orders Deliberate orders Fire orders And may be: <ul style="list-style-type: none"> • formal or informal • written, verbal or transmitted electronically
Standard procedures may include	Australian Standards Job guides, pamphlets and other publications Manufacturers' handbooks, industry specifications and technical instructions OH&S regulations Organisational policies and procedures Relevant local government by-laws Relevant state/territory or federal legislation Verbal or written orders and job instructions
Ammunition is identified by	Colour Hazard band Labelling Lot/batch numbers Markings Nomenclature

RANGE STATEMENT

	Packaging Type e.g. high explosive anti-tank (HEAT), high explosive squash head (HESH), armour piercing discarding sabot (APDS)
Occupational health and safety (OH&S) requirements and recognised safety precautions are	Applied appropriately to the operational environment and context
Equipment may include	Ancillary equipment (e.g. gun clino, traverse indicator) Firing controls Gun controls Sighting and laying equipment
Weapon drills may include	Action Boresight and sight alignment Check guns Clear gun Engagement Fire the gun Fixed line firing Handling Jammed cartridge Load and unload Make safe Misfire Replenish Stoppage
Fire control orders include	Direct Fire Orders Semi Indirect Fire Orders Indirect Fire Orders
Maintaining weapons systems may include	First and last parade procedures Non technical inspection Pre fire checks Servicing

Unit Sector(s)

Not applicable.

Corequisite Unit/s

Co-requisite Unit/s Nil