



Australian Government

DEFCA105 Operate and maintain armoured vehicle weapon systems

Release 1

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Modification History

Release	TP version	Comments
1	DEF12 V2	First release. Unit Descriptor updated. Application added. Language revised from armoured fighting vehicle to armoured vehicle. Repetitive PC statements removed. Minor Range Statement changes. Evidence Guide updated. Pre-requisite removed.

Unit Descriptor

This unit covers the competency required to operate armoured vehicle direct fire weapon systems to effectively produce fire.

Direct fire weapon systems are integral to, and operated in conjunction with, armoured vehicles. People who undertake this work will be part of an armoured vehicle 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 security operations.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication. In a Defence context, this means that there is no civilian need to hold this unit in order to meet licensing, legislative, regulatory or certification requirements.

Application of the Unit

This unit was developed for combat arms soldiers working within an operational zone in Defence. Typically these individuals must demonstrate the ability to work as individuals and as part of an armoured vehicle crew under direct and/or indirect supervision, use discretion and judgement, and take responsibility for the quality of their outputs.

All activities are carried out in accordance with relevant organisational policies and procedures.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

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 Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

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

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 WHS 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
- WHS 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

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

Assessment must confirm the ability to apply effective fire in an operational environment 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 in a range of operations or in simulated operational environments that

must include at least one live fire activity.

**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 operational environment. 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

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.

<i>Armoured vehicle</i> may include:	• all current in-service equipment: • main battle tank family of • light wheeled armoured family of vehicles • light tracked armoured family of vehicles
<i>Operations</i> may include:	• defensive • offensive • security
<i>Orders</i> may include:	• warning orders • quick orders • deliberate orders • fire orders • and may be: • formal or informal • written, verbal or transmitted electronically
<i>Ammunition</i> is identified by:	• colour • hazard band • labelling • lot/batch numbers • markings • nomenclature • packaging • type e.g. high explosive anti-tank (HEAT), high explosive squash head (HESH), armour piercing discarding sabot (APDS)
<i>Equipment</i> may include:	• ancillary equipment e.g. gun clinometer, traverse indicator • firing controls • gun controls • sighting and laying equipment
<i>Weapon drills</i> 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
<i>Fire control orders</i> may include:	• direct fire orders • semi indirect fire orders • indirect fire orders
<i>Maintaining weapons systems</i> may include:	• first and last parade procedures • non-technical inspection • pre fire checks • servicing

Unit Sector(s)

Not applicable.