



Australian Government

DEFCA204B Destroy hostile air targets using line of sight ground based air defence weapon systems

Release 2

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Modification History

Release	TP Version	Comments
2	DEF12 V2	Application added. Minor Range Statement and Performance Criteria changes. Evidence Guide updated.
1	DEF12 V1	First release.

Unit Descriptor

This unit covers the competency required to safely handle, aim, fire, manoeuvre and maintain line of sight ground based air defence weapon systems designed to destroy hostile aircraft. The operator must be thoroughly familiar with characteristics and capabilities of the missile system and competent in the application of fire in an operational or simulated operational environment.

The operator will work as part of a team and be under supervision for the whole operation except during the period of firing where the operator will be under direct control and receive orders that dictate all actions.

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 competency was developed for combat arms personnel required to operate line of sight ground based air defence weapon systems in a deployed operational environment but is applicable to any individual in this field of work.

Typically, operators work as part of a team 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. Manoeuvre the weapon	<p>1.1 <i>Line of sight ground based air defence weapon system</i> is prepared for movement in accordance with <i>standard procedures</i>.</p> <p>1.2 Weapon is positioned as directed.</p> <p>1.3 Work health and safety (WHS) requirements and recognised safety precautions are applied throughout the operation in accordance with standard procedures.</p>
2. Prepare the weapon for firing	<p>2.1 Ammunition is handled under supervision and in accordance with standard procedures.</p> <p>2.2 Ammunition is visually inspected, <i>ammunition defects</i> are reported to supervisor and defective ammunition is quarantined as directed.</p> <p>2.3 Ammunition is loaded and unloaded as directed.</p> <p>2.4 <i>Ancillary equipment</i> is positioned and operated as directed and in accordance with standard procedures.</p>
3. Engage aerial targets	<p>3.1 Aerial <i>targets</i> are <i>identified</i> and confirmed by supervisor.</p> <p>3.2 Targets are sighted and tracked using the system as directed and in accordance with standard procedures.</p> <p>3.3 Weapon is fired as ordered by supervisor.</p> <p>3.4 <i>Defects with firing</i> are reported to supervisor and corrective action is taken as directed.</p> <p>3.5 Aim off drills are initiated on dispute of aircraft identification in accordance with standard procedures.</p>
4. Maintain the serviceability of the weapon	<p>4.1 Maintenance defects are reported to supervisor.</p> <p>4.2 <i>Operating maintenance</i> is conducted in accordance with standard procedures.</p>

Required Skills and Knowledge

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

Required Skills

- hand-eye coordination
- manual dexterity
- recognise aerial targets appropriately
- use binoculars
- work in a team

Required Knowledge

- aircraft types
- characteristics, technical capabilities of the system
- characteristics of a range of aerial targets likely to be encountered
- methods of range estimation
- WHS requirements
- 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:

- correctly identify the number of aerial targets specified by CATC
- track and engage targets using very short range air defence systems and short range air defence systems
- successfully carry out simulated engagements using weapon simulators
- communicate information quickly, clearly and accurately in a high pressure environment

Consistency in performance

Competency should be demonstrated over time and across a range of simulated or actual workplace situations

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in the workplace or in a simulated workplace environment

Specific resources for assessment

Access to operational equipment, training and simulation equipment.

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>Line of sight ground based air defence weapon systems</i> may include:	<ul style="list-style-type: none"> • in service ground based air defence weapon system • short range air defence • tracker radar • very short range air defence
<i>Standard procedures</i> may include:	<ul style="list-style-type: none"> • Australian Standards • doctrinal pamphlets • defence instructions • job guides, other publications • manufacturers' handbooks, industry specifications and technical instructions • organisational policies and procedures • procedure manuals • reengagement procedures • relevant local government by-laws • relevant state/territory or federal legislation • routine orders • standing operating procedures • standing orders • written and verbal orders • WHS regulations
<i>Ammunition defects</i> may include:	<ul style="list-style-type: none"> • cracks/dents • corrosion • damage packaging • humidity desiccant • protective covers missing
<i>Ancillary equipment</i> may include:	<ul style="list-style-type: none"> • confidence equipment • generators
<i>Targets</i> may include:	<ul style="list-style-type: none"> • air launched weapons • aircraft: <ul style="list-style-type: none"> • fixed wing • rotary wing • cruise missile • other targets as directed (land and sea) • tactical ballistic missile • unpiloted aerial vehicle
<i>Identified aerial targets</i> may include:	<ul style="list-style-type: none"> • friendly

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| <p><i>Defects with firing</i> may include:</p> <p><i>Operating maintenance</i> may include:</p> | <ul style="list-style-type: none">• hostile• unknown• activated misfire• late interrogation of friend or foe (target)• system fault• unactivated misfire• basic servicing of ancillary equipment• cleaning• lubricating |
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Unit Sector(s)

Not applicable.