



**Australian Government**

**DEFCA213 Supervise the destruction of  
hostile air targets using line of sight ground  
based AD weapon system**

**Release: 1**

## **DEFCA213 Supervise the destruction of hostile air targets using line of sight ground based AD weapon system**

### **Modification History**

<b>Release</b>	<b>TP Version</b>	<b>Comments</b>
1	DEF12 V2	First release. Replaces is and equivalent to DEFCA211B. Supervise the destruction of hostile air targets using line of sight ground based air defence weapon systems.

### **Unit Descriptor**

This unit covers the competency required to supervise and control all aspects of the operation of a direct fire ground based missile system designed to destroy hostile aircraft.

The control of the ground based missile system requires target interrogation, analysis, engagement and decision-making based on tactical information, situational awareness and observed target activity.

This unit of competency is written for visual range ground based air defence weapon systems, which does not include small arms.

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 supervise and control all aspects of the operation of a direct fire ground based missile system designed to destroy hostile aircraft in a deployed operational environment but is applicable to any individual in this field of work.

While this work will be undertaken under the commander's direction the individual must be able to act independently as required by the circumstances, 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**

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

DEFCM104C Operate in a threat environment.

## **Employability Skills Information**

This unit contains employability skills.

## **Elements and Performance Criteria Pre-Content**

Not applicable.

## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<p>Elements describe the essential outcomes of a Unit of Competency.</p>	<p>Performance Criteria describe the required performance needed to demonstrate achievement of the element. Where <b><i>bold italicised</i></b> text is used, further information is detailed in the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.</p>
<p><b>1. Prepare and deploy ground based air defence systems</b></p>	<p>1.1 <b><i>Resources required</i></b> for the performance of the task are determined and organised in accordance with orders.</p> <p>1.2 Identified problems/shortfalls are reported to immediate supervisor in accordance with <b><i>standard procedures</i></b>.</p> <p>1.3 Orders are followed to move to a directed location and concealment is maintained.</p> <p>1.4 <b><i>Ground based air defence system</i></b> is deployed in accordance with orders.</p> <p>1.5 System is established, integrated and checked for functionality.</p>
<p><b>2. Control the engagement of targets with a ground based air defence systems</b></p>	<p>2.1 Advice is received on the operational situation and analysed to inform the engagement process.</p> <p>2.2 Ground based air defence system <b><i>operations</i></b> are directed and controlled in accordance with orders and standard procedures.</p> <p>2.3 <b><i>Operational data</i></b> is transmitted to the command post.</p> <p>2.4 <b><i>Minor incidents</i></b> are rectified.</p> <p>2.5 <b><i>Major incidents</i></b> beyond own level of authority or competence are reported to manager/s and action is taken as directed.</p>
<p><b>3. Conduct maintenance on ground based air defence systems</b></p>	<p>3.1 Operator maintenance activities are supervised.</p> <p>3.2 <b><i>Maintenance</i></b> activities are performed in accordance with standard procedures.</p>
<p><b>4. Redeploy a ground based missile system</b></p>	<p>4.1 Redeployment preparation is carried out.</p> <p>4.2 Orders are followed to move from one directed location to another in accordance with standard procedures.</p>

## Required Skills and Knowledge

### Required Skills

- communicate effectively
- interpret orders, instructions and directions
- manage a small team
- manual dexterity
- navigate
- operate communication equipment
- participate in air defence system deployment and operation drills
- recognise aerial targets appropriately
- use simulation systems

### Required Knowledge

- airspace control measures
- characteristics, technical capabilities, effects and limitations of air defence systems
- communication networks
- factors effecting local defence
- ground based air defence command structure
- mechanical principles
- principles of camouflage
- radar principles
- relevant WHS requirements

## Evidence Guide

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

Assessment must confirm the ability to recognise own level of authority; to correctly identify a number of different types of aerial targets as determined by the Combat Arms Training Centre; to prioritise targets in a high intensity situation encountered in a threat environment; to direct fire in a clear and concise manner, and to take appropriate action in the event of misfire and cancel missile in-flight; and to supervise the deployment and maintenance of ground based air defence systems.

### 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 a simulated operational environment due to the high cost of ammunition.

**Specific resources for assessment**

Access to a hi-fidelity simulator that accurately simulates the threat environment.

**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.

***Resources required*** may include:

- ammunition
- any allocated support
- generators
- ground based air defence weapon system
- materials
- personnel
- rations
- stores
- vehicles
- visual alerting and cueing systems
- weapons

***Standard procedures*** may include:

- Australian Standards
- defence instructions
- doctrinal pamphlets
- job guides, other publications
- manufacturers' handbooks, industry specifications and technical instructions
- work health and safety (WHS) 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

<b><i>Ground based air defence system</i></b> may include:	<ul style="list-style-type: none"> <li>• alerting and cueing system</li> <li>• short range air defence weapon system</li> <li>• very low level air defence weapon system</li> </ul>
<b><i>Operations</i></b> may include:	<ul style="list-style-type: none"> <li>• cancel missile in-flight</li> <li>• fire control</li> <li>• firing</li> <li>• misfire procedures</li> <li>• operator direction</li> <li>• target identification</li> <li>• target prioritisation</li> </ul>
<b><i>Operational data</i></b> may include:	<ul style="list-style-type: none"> <li>• ammunition report</li> <li>• engagement report</li> <li>• situation report</li> </ul>
<b><i>Minor incidents</i></b> may include:	<ul style="list-style-type: none"> <li>• damage to equipment</li> <li>• misfire</li> </ul>
<b><i>Major incidents</i></b> may include:	<ul style="list-style-type: none"> <li>• explosive ordnance incident</li> <li>• incorrect target identification</li> <li>• injury to personnel</li> </ul>
<b><i>Maintenance</i></b> may include:	<ul style="list-style-type: none"> <li>• non-technical inspection</li> <li>• test and adjust equipment</li> </ul>

## Unit Sector(s)

Not applicable.