



Australian Government

DEFCA003B Operate a radar to locate targets

Release: 2

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Modification History

Release	TP Version	Comments
2	DEF12 V2	Clarified Unit Descriptor. Minor Range Statement change.
1	DEF12 V1	Primary release.

Unit Descriptor

This unit covers the competency required to operate a radar in order to locate targets and to provide information as directed by the operational plan. Operation of the radar may include; classification, identification, location and navigation.

The operator will work as part of a team and will be under supervision.

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 a radar in order to locate targets and to provide information as directed by the operational plan 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 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
<p>1. Set up radar</p>	<p>1.1 Radar is prepared for operation in accordance with <i>standard procedures</i>.</p> <p>1.2 Radar is initialised and used in accordance with standard procedures and manufacturer's instructions.</p> <p>1.3 Operational performance and accuracy of the radar is confirmed and <i>appropriate action</i> is taken where performance is out of limits.</p> <p>1.4 Misrepresentations and false echoes are detected and discounted.</p>
<p>2. Operate radar</p>	<p>2.1 Radar is operated in accordance with standard procedures to produce required data.</p> <p>2.2 Data produced by the radar is interpreted and used to assist command decisions, taking into account known <i>limitations and errors</i> associated with the equipment.</p> <p>2.3 Faults or difficulties within the operator's ability to correct are corrected.</p> <p>2.4 Any faults or difficulties beyond the operator's ability to correct are referred to supervisor and action is taken as directed.</p> <p>2.5 Data is provided to supervisor or user.</p> <p>2.6 Administration is completed in accordance with standard procedures.</p> <p>2.7 <i>Operational maintenance</i> is conducted as required.</p>

Required Skills and Knowledge

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

Required Skills

- apply relevant WHS requirements
- apply operational safety
- conduct equipment maintenance
- fieldcraft skills including tactical movement and camouflage
- interpret and respond to orders
- observation, recording and reporting skills
- participate in weapon drills

- use communication systems
- use equipment/instruments

Required Knowledge

- characteristics and effects of hostile and friendly equipment and weapons
- nature of the threat environment
- radar equipment characteristics and limitations
- relevant WHS constraints
- Rules of Engagement
- tactical techniques and procedures
- target recognition

Evidence Guide

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

Assessment must confirm the ability to interpret directions from supervisors and to carry out each operator task.

Consistency in performance

Competency should be demonstrated on deployment of equipment in a range of different 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.

Specific resources for assessment

Access to appropriate radar equipment and an appropriate field site or a high fidelity simulator.

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.

<p><i>Standard procedures</i> may include:</p>	<ul style="list-style-type: none"> • Australian Standards • defence instructions • doctrine 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
<p><i>Appropriate action</i> may include:</p>	<ul style="list-style-type: none"> • correcting faults using basic fault finding skills • re-entering data • reporting to supervisor
<p><i>Limitations and errors</i> may include:</p>	<ul style="list-style-type: none"> • electronic line of sight • elevation • field of view • range
<p><i>Operational maintenance</i> may include:</p>	<ul style="list-style-type: none"> • cleaning • diagnostic tests • lubricating • service ancillary equipment • visual inspection

Unit Sector(s)

Not applicable.