



Australian Government

DEFCA208B Maintain radar systems at field operator level

Release: 2

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Modification History

Release	TP Version	Comments
2	DEF12 V2	Application added.
1	DEF12 V1	First release.

Unit Descriptor

This unit covers the competency required to inspect, test and troubleshoot faults with radar systems and components in an environment away from a maintenance facility.

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 inspect, test and troubleshoot faults with radar systems and components in an environment away from a maintenance facility and in a deployed operational environment but is applicable to any individual in this field of work.

Typically, the individual is required to work autonomously, 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. Inspect radar systems and components	1.1 Relevant maintenance documentation and modification status, including system defect reports, where relevant, are used to identify specific inspection requirements. 1.2 Primary radar system components are visually or physically checked for external signs of defects in accordance with applicable maintenance manuals. 1.3 Defects are identified and noted/reported in accordance with standard procedures.
2. Test/adjust radar systems and components	2.1 Radar system is prepared in accordance with maintenance manuals for the application of power/system operation. 2.2 Radar system is functionally tested, in accordance with applicable maintenance manuals, for evidence of serviceability or malfunction. 2.3 System calibration or adjustments are performed in accordance with applicable maintenance manuals.
3. Troubleshoot primary radar system faults	3.1 Valid conclusions about the nature and cause of the fault are drawn from available evidence within an acceptable time and appropriate action is taken in accordance with standard procedures. 3.2 Available information from maintenance documentation, inspection and test results is used, where necessary, to assist in fault determination. 3.3 Maintenance manual fault diagnosis guides and logic processes are used to ensure efficient and accurate troubleshooting. 3.4 Faults beyond authority to repair are identified and the problem is documented for higher level repair by an outside agency. 3.5 Primary radar system faults are located and the causes of the faults are clearly identified and correctly recorded in maintenance documentation in accordance with standard procedures. 3.6 Spare parts, consumables and other equipment are identified, selected and obtained in accordance with standard procedures. 3.7 Fault is rectified in accordance with maintenance documentation. 3.8 Documentation and records are completed in accordance with standard procedures.

Required Skills and Knowledge

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

Required Skills

- apply analytical skills
- perform radar drills and procedures

Required Knowledge

- characteristics, tabulated data and limitations of the radar equipment
- principles of radar theory

Evidence Guide

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

Assessment must confirm the ability to work autonomously and to refer problems on to appropriate outside agencies as necessary.

Consistency in performance

Competency should be demonstrated over a range of radar maintenance scenarios that could be expected in the workplace.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed on operations or in a simulated operational environment.

Specific resources for assessment

Access to a radar, ancillary equipment and maintenance documentation.

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.

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| <p><i>Standard procedures</i> may include:</p> | <ul style="list-style-type: none"> • Australian Standards • job guides, pamphlets and other publications • manufacturers' handbooks, industry specifications and technical instructions • work health and safety (WHS) regulations • organisational policies and procedures • relevant local government by-laws • relevant state/territory or federal legislation • Verbal or written orders and job instructions |
| <p><i>Outside agencies</i> may include:</p> | <ul style="list-style-type: none"> • referral to an authorised specialist at one of the following levels: <ul style="list-style-type: none"> • base or depot field • intermediate |
| <p><i>Documentation and records</i> may include:</p> | <ul style="list-style-type: none"> • equipment serviceability documentation • key information relevant to fault diagnosis for referral to outside agencies |

Unit Sector(s)

Not applicable.