



Australian Government

Department of Education, Employment and Workplace Relations

PUADEFCA208B Maintain radar systems at field operator level

Revision Number: 1

PUADEFCA208B Maintain radar systems at field operator level

Modification History

Not applicable.

Unit Descriptor

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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.

The maintainer is required to work autonomously.

Application of the Unit

Application of the Unit

The application of this unit in the workplace - the environments, complexities and situations involved - will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

This text will be useful for the purposes of job descriptions, recruitment advice or job analysis; where possible, it will not be too job specific to allow other industries to import it into other Training Packages, where feasible.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite Unit/s

Nil

Employability Skills Information

Employability Skills

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 Required Skills and Knowledge and/or 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

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

EVIDENCE GUIDE

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.

Guidance information for assessment

Information that will assist or guide assessment will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

Range Statement

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.

Standard procedures may include

Australian Standards
Job guides, pamphlets and other publications
Manufacturers' handbooks, industry specifications and technical instructions
Occupational health and safety (OH&S) regulations
Organisational policies and procedures
Relevant local government by-laws
Relevant state/territory or federal legislation
Verbal or written orders and job instructions

Outside agencies may include

Referral to an authorised specialist at one of the following levels:

- base or depot field
- intermediate

Documentation and records may include

Equipment serviceability documentation
Key information relevant to fault diagnosis for referral to outside agencies

Unit Sector(s)

Not applicable.

Corequisite Unit/s

Co-requisite Unit/s

Nil