



Australian Government

ICTRFN403 Test and repair cellular network equipment

Release: 1

ICTRFN403 Test and repair cellular network equipment

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 2.0.

Application

This unit describes the skills and knowledge required to analyse cell performance and perform diagnostic tests and repairs on sub-elements and subsystems within cellular networks.

It applies to individuals working as field officers and technicians who may be responsible under supervision for small projects or parts of larger projects and for the coordination of projects in sites remote from the organisational headquarters.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Telecommunications – radio frequency networks

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to test cellular network equipment	1.1 Produce alarm list from cellular network subsystem that shows faults or disturbances 1.2 Reset sub-element according to manufacturer's specifications 1.3 Clear or block alarms and adjust alarm thresholds according to manufacturer's specifications
2. Test cellular network sub-element equipment	2.1 Test parameters influencing cell performance and record performance for a range of field settings 2.2 Test, record and report sub-element performance according to manufacturer's specifications

	2.3 Run diagnostic test on sub-element 2.4 Swap working or executing sub-element with spare or idle unit to allow software upgrades 2.5 Swap working or executing sub-element with spare or idle sub-element to allow replacement of hardware
3. Rectify faults in cellular network equipment subsystems	3.1 Locate faulty sub-element within subsystem and identify fault 3.2 Identify faulty parts or equipment and replace or repair according to service agreement 3.3 Record fault details and rectification summary 3.4 Hand over and sign off with client

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.2, 1.3, 2.2	Recognises and interprets information from relevant sources to determine technical specifications
Writing	1.1, 2.1, 2.2, 3.3, 3.4	Uses clear, specific and industry related terminology to complete and update workplace documentation and in written communications with clients
Oral Communication	3.4	- Liaises with internal and external personnel about technical requirements using specific and relevant language - Uses listening and questioning techniques to confirm understanding
Numeracy	2.1-2.3	Evaluates and reviews numerical information when interpreting measurements
Get the work done	1.2, 1.3, 2.1-2.5, 3.1, 3.2	- Determines job priorities and works logically and systematically to undertake clearly defined and familiar tasks - Implements actions according to a predetermined plan, making slight adjustments if necessary and addressing some unexpected issues - Takes responsibility for routine decision making by selecting from a range of predetermined

		options in routine situations, identifying and taking situational factors into account • Diagnoses and implements standard solutions to network problems • Understands the purposes and specific functions of common digital systems and uses them effectively to complete routine tasks
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTRFN403 Test and repair cellular network equipment	ICTRFN4159A Test and repair cellular network equipment	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>