



Australian Government

ICTRFN501 Test cellular handset enhancements and international roaming agreements

Release: 1

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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 conduct and analyse the results of testing a subscriber's cellular phone service in a public land mobile network (PLMN) overseas and make recommendations accordingly.

It applies to individuals who work as technical officers and supervisors. They are proficient in the use of specialised testing equipment, are effective communicators and operate with a high degree of autonomy.

No licensing, legislative or certification requirements apply 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 conduct roaming tests	1.1 Obtain relevant legislation, codes, regulations and standards for compliance when conducting work 1.2 Identify need for tests from service provider mobile network deployment taskforce 1.3 Develop enterprise test procedure according to roaming arrangements and manufacturer test regime 1.4 Arrange access to location where tests are to be conducted according to required procedure 1.5 Select resources needed to conduct tests, complying with

	roaming arrangements 1.6 Confirm details of international roaming partners and agreements with partner mobile operators 1.7 Advise network operations centre of test details and test schedule
2. Conduct tests and analyse test results	2.1 Conduct tests according to enterprise test procedure 2.2 Analyse recorded test results for roaming compliance and functionality of subscriber identity module (SIM) card and phone enhancements
3. Document results	3.1 Document details of roaming tests, SIM card validity and functionality of phone enhancements, and make recommendations to appropriate person 3.2 Report non-compliance to appropriate person for investigation with international roaming partners and mobile phone manufacturer

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, 2.1	Recognises and interprets enterprise, regulatory and technical information from relevant sources to determine all specifications and frameworks
Writing	1.3, 1.6, 1.7, 3.1, 3.2	Uses clear, specific and industry related terminology to complete and update workplace documentation and in written communications to relevant personnel
Oral Communication	1.2, 1.6, 1.7, 3.1, 3.2	- Provides advice and guidance using relevant language with enterprise personnel, international roaming partners and clients to maintain a client focus and consider client needs - Uses listening and questioning techniques to confirm understanding
Numeracy	2.1, 2.2	Performs mathematical calculations to check, analyse and confirm results of system tests

Navigate the world of work	1.1	• Takes personal responsibility for adherence to legal and regulatory requirements
Get the work done	1.1, 1.4, 1.5, 2.1, 2.2	• Determines job priorities, resources and equipment. 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 • Responds to typical challenges in different situations and implements standard solutions • Uses and investigates new digital technologies and applications to manage and manipulate data, and communicate effectively with others, in a secure and stable digital environment • Uses experiences to evaluate and identify improvements for future work

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTRFN501 Test cellular handset enhancements and international roaming agreements	ICTRFN5097A Test cellular handset enhancements and international roaming agreements	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>

Assessment Requirements for ICTRFN501 Test cellular handset enhancements and international roaming agreements

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Performance Evidence

Evidence of the ability to:

- collect and collate relevant information in preparation for roaming tests
- conduct tests on international roaming capability and functionality of handset enhancements
- analyse results of testing
- make recommendations based on test results.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- summarise the features and operating requirements of specialised roaming test equipment
- outline information required to operate equipment according to a test specification
- explain legislation, codes of practice and other formal agreements that impact on the work activity
- outline manufacturer's requirements for safe operation of equipment
- summarise mobile phone network standards and specifications
- explain specific work health and safety (WHS) requirements relating to the activity and site conditions
- describe the testing and analysis process and procedures for cellular handsets.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances should be typical of those experienced in the telecommunications – radio frequency networks field of work and include access to:

- a site where tests on handsets and international roaming agreements may be conducted
- testing equipment currently used in industry
- equipment, system manuals, specifications and relevant enterprise policy and documentation.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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