



Australian Government

ICTRFN504 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 7.0.

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 making recommendations to relevant personnel.

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

ELEMENT	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 tests over cellular phone service	1.1 Identify need for tests from international roaming partners and mobile service providers according to organisational procedures and requirements 1.2 Develop enterprise test procedure according to international roaming arrangements and manufacturer requirements 1.3 Arrange access to locations where tests are to be conducted according to organisational procedures and requirements 1.4 Obtain resources needed to conduct tests according to international roaming arrangements 1.5 Advise relevant personnel of test details and schedules
2. Conduct tests and	2.1 Conduct tests according to schedule and organisational

ELEMENT	PERFORMANCE CRITERIA
analyse results	requirements 2.2 Analyse recorded test results for roaming compliance and functionality of subscriber identity module (SIM) card and phone enhancements
3. Document and communicate results	3.1 Record details of roaming tests, SIM card validity and functionality of phone enhancements and make recommendations to relevant personnel 3.2 Investigate and report non-compliance to roaming partners, mobile phone manufacturers and relevant personnel

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Numeracy	Performs mathematical calculations to check, analyse and confirm results of system tests
Oral communication	- Provides advice and guidance using required 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 knowledge
Reading	Recognises and interprets enterprise, regulatory and technical information from required sources to determine all specifications and frameworks
Writing	Uses clear, specific and industry related terminology to complete and update workplace documentation and in written communications to personnel
Problem solving	- 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 and addressing unexpected challenges by implementing standard solutions
Self-management	Takes personal responsibility for adherence to procedures relevant to legal and regulatory requirements
Technology	Uses and investigates new digital technologies and applications to manage and manipulate data, and communicate with others, in a secure and stable digital environment

Unit Mapping Information

Supersedes and is equivalent to ICTRFN501 Test cellular handset enhancements and international roaming agreements.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for ICTRFN504 Test cellular handset enhancements and international roaming agreements

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- collate required information to prepare and conduct testing of at least two cellular handset enhancements and at least two international roaming agreements.

In the course of the above, the candidate must:

- conduct tests on international roaming capability and functionality of handset enhancements
- analyse test results and communicate findings to relevant personnel
- recommend solutions based on test results.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- organisational procedures regarding:
 - international roaming agreements and arrangements
 - mobile service providers
 - manufacturer requirements
 - accessing third-party locations
- features and requirements of cellular handset enhancements
- types of enterprise testing procedures and requirements
- features and requirements of specialised roaming test equipment and test schedules
- types of mobile phone network standards and specifications
- testing and analysis procedures for cellular handsets
- required legislation, codes, company work practices, regulations and standards, work health and safety (WHS) requirements for scoped work.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes 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 required 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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