



Australian Government

ICTTEN613 Assess integration of international network equipment into Australian networks

Release: 1

ICTTEN613 Assess integration of international network equipment into Australian networks

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 inspect and test international network equipment not previously installed in an Australian network. It involves assessing its suitability and compliance with local regulations and conditions for the carrier or asset owner.

It applies to individuals working as field officers, technicians or technical supervisors for carriers, contractors or other service providers, who verify compliance of new equipment or systems with Australian standards.

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

Unit Sector

Telecommunications Networks Engineering

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. Determine compliance of international network equipment designs with Australian standards	1.1 Obtain international and Australian network designs and design requirements from relevant personnel, and arrange for site access in compliance with required security arrangements, legislation, codes, regulations and standards 1.2 Analyse international designs and verify compliance with required Australian legislation, codes, regulations and standards 1.3 Reconfigure international design in consultation with relevant personnel 1.4 Rewrite design specifications and include configuration amendments

ELEMENT	PERFORMANCE CRITERIA
2. Plan network integration tests	2.1 Determine type and number of tests that will confirm a full trial of new designs and provide the greatest coverage of minimal tests 2.2 Establish test environment that will confirm total validity of chosen tests 2.3 Design test regime of proposed network to test impact on existing network 2.4 Confirm test regime in consultation with relevant personnel and verify that test equipment meets required standards
3. Test integration of international network equipment into Australian networks	3.1 Conduct and document required tests in logical and sequential order according to plans 3.2 Negotiate problems experienced during tests with relevant personnel and plan contingency activity according to enterprise policy 3.3 Prepare and submit trouble reports according to enterprise policy
4. Analyse test results	4.1 Analyse test results against design specifications and planned outcomes obtained from relevant personnel 4.2 Prepare a report referring major deficiencies to relevant personnel with recommendations for design change 4.3 Analyse minor variances, plan solutions and document changes to specifications
5. Complete assessment of integration of international network equipment into Australian networks	5.1 Implement design and specification changes and conduct further tests as required 5.2 Analyse test results and verify compliance with updated design specifications 5.3 Document results of tests according to enterprise policy

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	Uses mathematical formulae to make calculations and necessary calibration changes by interpreting test results
Oral communication	Uses active listening, observational and questioning techniques to identify different perspectives and confirm, clarify or revise understanding
Reading	Organises, evaluates and critiques technical specifications, legislative, regulatory and policy requirements

SKILL	DESCRIPTION
Writing	Prepares workplace documentation including reports incorporating technical language to communicate recommendations clearly and effectively
Teamwork	- Collaborates with others to achieve joint outcomes, playing an active role in negotiating positive outcomes - Selects and uses required conventions and protocols when communicating with personnel in a range of work contexts
Planning and organising	- Takes responsibility for own workload, negotiating some key aspects with others - Uses a combination of formal, logical planning processes to identify required information, test strategies and resources - Implements actions according to a predetermined plan, making adjustments if necessary
Problem solving	Uses formal, analytical and lateral thinking techniques for identifying issues, and generating and evaluating possible solutions
Self-management	Adheres to organisational procedures and protocols and legal and regulatory responsibilities, and considers these when planning and undertaking work
Technology	Uses sophisticated understanding of principles, concepts, language and practices associated with the digital world to identify uses and potential of new technologies

Unit Mapping Information

Supersedes and is equivalent to ICTTEN601 Undertake qualification testing of new or enhanced equipment and systems.

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 ICTTEN613 Assess integration of international network equipment into Australian networks

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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:

- assess the integration of at least three different types of international network equipment into at least one Australian network.

In the course of the above, the candidate must:

- apply Australian standards to international designs
- identify customer-specific requirements
- configure and set up tests to assess network integration
- identify and conduct tests, including live system tests, and interpret and analyse results
- approach problem diagnosis systematically, eliminating causes
- re-test design changes
- prepare report, including deficiencies, analysis and recommendations.

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:

- required international and Australian legislation, codes, enterprise policy, company work practices, regulations and standards, workplace health and safety (WHS) requirements for scoped work
- features of network designs
- required connections to carrier infrastructure and equipment
- testing and amending network designs
- network and equipment tests required for compliance
- common network architectures
- function and features of trouble reports.

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 test site where qualification testing of equipment and systems may be conducted
- equipment currently used in industry
- required Australian and international standards, codes, design specifications, manuals and reference materials.

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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