



Australian Government

ICTTEN504 Acceptance test new systems and equipment

Release: 1

ICTTEN504 Acceptance test new systems and 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 ensure new system readiness by inspecting and testing equipment to confirm compliance and performance.

It applies to individuals working as field officers, technicians or technical supervisors for carriers, contractors or other service providers.

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

Unit Sector

Telecommunications – 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. Prepare to conduct acceptance testing	1.1 Obtain installation and commissioning documents and planning specifications from appropriate personnel to ensure the installed system is as planned and specified 1.2 Visually inspect new installation and verify compliance of the system against relevant legislation, codes, regulations and standards 1.3 Select and obtain required test equipment for suitability of acceptance testing 1.4 Prepare acceptance schedule and test criteria in consultation with appropriate personnel
2. Conduct acceptance	2.1 Undertake and analyse performance tests safely to ensure measurements meet with predetermined specifications and approved

ELEMENT	PERFORMANCE CRITERIA
testing	operating margins 2.2 Verify performance levels to within tolerance specifications 2.3 Test protection mechanisms to ensure performance criteria meets the specified standard 2.4 Test alarms for satisfactory operation 2.5 Refer identified problems to appropriate personnel for remedial action 2.6 Record all acceptance test procedures and results
3. Complete administrative tasks	3.1 Complete acceptance documentation including recommendations 3.2 Notify appropriate personnel and obtain sign-off

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, 2.1, 2.2	Identifies, analyses and evaluates information to determine regulatory and technical requirements to assist with project planning
Writing	1.4, 2.6, 3.1	Prepares written reports and workplace documentation that communicates complex information clearly and effectively
Oral Communication	1.4	- Liaises with appropriate personnel and customers to ensure requirements are properly understood - Participates in verbal exchanges employing listening and questioning techniques to confirm understanding
Numeracy	2.1, 2.2	Uses mathematical formulae to calculate measurements, analyse results and make adjustments to equipment and settings
Navigate the world of work	1.2	Keeps up-to-date with relevant legislation and considers implications of this when planning work, with specific reference to safety
Interact with others	1.1, 1.4, 2.5, 3.2	Selects and uses appropriate conventions and protocols when communicating with stakeholders in a range of work contexts

		Collaborates and cooperates with others to achieve required outcomes
Get the work done	1.1, 1.3, 2.3-2.5	- Uses a combination of formal, logical planning processes and an increasingly intuitive understanding of context to identify relevant information, test strategies and resources - Understands key principles and concepts underpinning design and operation of digital systems and tools, and applies these as required - Implements actions according to a predetermined plan, making adjustments if necessary - Makes decisions quickly and intuitively in familiar situations requiring immediate attention, drawing on past experience to identify key variables and determine the best course of action - Uses analytical processes to decide on a course of action, establishing criteria for deciding between options, and seeking input and advice from others before taking action when necessary

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTTEN504 Acceptance test new systems and equipment	ICTTEN5058A Acceptance test new systems and 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>

Assessment Requirements for ICTTEN504 Acceptance test new systems and equipment

Modification History

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

Performance Evidence

Evidence of ability to:

- inspect new installation and verify compliance against installation plans
- prepare acceptance schedule and test criteria
- undertake relevant acceptance tests and analysis
- comply with specified performance criteria, related work health and safety (WHS) requirements and work practices.

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:

- outline cabling, terminations and supporting structures that may be encountered in the system under inspection
- explain common performance levels and standards
- explain electrical and or optical properties to be measured
- consider WHS issues that impact testing systems and equipment
- evaluate typical network topologies, switching, routing and transmission techniques
- evaluate transmission type and signals that may be encountered
- explore various types of test equipment suitable for testing to be performed.

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 networks engineering field of work and include access to:

- sites where acceptance tests may be conducted
- testing equipment currently used in industry
- relevant regulatory and equipment documentation.

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

Links

Companion Volume implementation guides are found in VETNet -

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