



Australian Government

ICTTEN619 Test new software and hardware releases

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 authenticate compliance and compatibility of software and hardware to an existing system for new software and hardware releases for an existing system or new infrastructure for convergence to Next Generation Networks (NGN).

It applies to individuals with high-level technical skills who make use of software test routines and test hardware for performance to manufacturer's and design specifications.

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. Plan testing of new software and hardware releases	1.1 Obtain manuals, specifications and instructions associated with new releases and identify areas of uncertainty for confirmation with the vendor 1.2 Plan the testing environment of the software and hardware release with relevant personnel 1.3 Determine resources required to assist with the test, and negotiate their availability 1.4 Determine and plan outage and notify relevant personnel 1.5 Notify relevant personnel of impact on the network during the test 1.6 Develop contingency plans to cater for likely problems during the test

ELEMENT	PERFORMANCE CRITERIA
2. Test software and hardware releases	2.1 Load new software and conduct tests using required test equipment according to vendor specifications 2.2 Evaluate test results to assess functionality and features of software and hardware according to vendor documentation 2.3 Test compatibility with existing network and take corrective action with vendor as required 2.4 Implement contingency plans in conjunction with network management if integrity of the network is compromised by the new release
3. Complete testing of software and hardware releases	3.1 Document test results and store according to enterprise policy 3.2 Discuss ongoing and likely problems with the vendor and initiate follow-up arrangements to confirm a permanent solution 3.3 Provide clearance for software and hardware release to be put in service in the system according to enterprise procedures 3.4 Update system documentation and service catalogue systems, where required and communicate with operational teams.

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	<ul style="list-style-type: none"> Extracts and evaluates technical data, including equipment specifications during testing phase
Oral communication	<ul style="list-style-type: none"> Articulates requirements and likely challenges when engaging with enterprise personnel, customers and contractors using relevant language suitable to diverse audiences and employs listening and questioning techniques to confirm understanding
Reading	<ul style="list-style-type: none"> Organises, evaluates and interprets technical documentation including software and hardware manuals, specifications and relevant enterprise policy and documentation
Writing	<ul style="list-style-type: none"> Prepares workplace documentation, including reports and recommendations, incorporating technical language to communicate complex information clearly and effectively
Teamwork	<ul style="list-style-type: none"> Selects and uses relevant conventions and protocols when communicating with customers, vendors or technical personnel in a range of work contexts Collaborates and cooperates with others to achieve joint outcomes

SKILL	DESCRIPTION
Planning and organising	<ul style="list-style-type: none">• Uses a combination of formal, logical planning processes to identify required information, test strategies and resources
Problem solving	<ul style="list-style-type: none">• Uses systematic, analytical processes in complex, non-routine situations, setting goals, gathering relevant information and identifying and evaluating options against agreed criteria• Uses formal, analytical and lateral thinking techniques for diagnosing problems, and generating and evaluating possible solutions
Self-management	<ul style="list-style-type: none">• Adheres to organisational procedures and protocols when planning and undertaking work
Technology	<ul style="list-style-type: none">• Uses advanced features of digital systems and tools to enter, store, test and analyse data

Unit Mapping Information

Supersedes and is equivalent to ICTTEN608 Verify new software and hardware releases.

Links

Companion Volume Implementation Guide is found on VETNet -

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