



Australian Government

ICTSAS513 Develop detailed test plans

Release: 1

ICTSAS513 Develop detailed test plans

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to plan for testing information and communications technology (ICT) systems, including software development, systems administration, networking, and web development, by collating documentation of conditions and expected results sufficiently to allow for thorough system testing.

It applies to individuals who use technical and specialised knowledge and systematic approaches in performing or organising others to complete complex technical testing operations.

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

Unit Sector

Systems administration and support

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 test environment and gather tools	1.1 Determine structure of system and user accounts to understand the test environment 1.2 Determine areas to test and test objectives, according to organisational standards 1.3 Ensure accessibility of documentation 1.4 Notify user representatives or approval authorities of objectives and scheduled test 1.5 Notify operations staff of scheduled test to ensure preparedness

ELEMENT	PERFORMANCE CRITERIA
	and an understanding of implications
2. Prepare test data	2.1 Gather test schedules according to organisational standards 2.2 Correlate schedules with related functionality according to organisational standards 2.3 Check testing schedule prior to validation according to organisational standards 2.4 Prepare test drivers or stubs for test harness according to organisational standards 2.5 Register test plan and initiate log entries according to organisational standards
3. Complete test plan and acceptance processes	3.1 Use software metrics where appropriate 3.2 Validate test and acceptance processes 3.3 Ensure documentation and reporting comply with test plan and quality benchmarks

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	1.1, 1.2, 2.1-2.3	Analyses and evaluates textual and numerical information from a range of documentation to determine required action
Writing	1.4, 1.5, 3.3	Uses clear and precise language and document formats appropriate to the audience and task to convey explicit information and instructions
Oral Communication	1.4, 1.5	Uses clear and accurate language, and inclusive and collaborative techniques to convey information to a range of personnel
Numeracy	2.2, 2.5, 3.3	Uses mathematical equations to calculate and compare numerical test data to determine required actions
Interact with others	1.4, 1.5	Identifies and uses appropriate conventions and protocols when communicating with colleagues and others
Get the work	1.1-1.5, 2.1-2.5,	Accepts responsibility for planning, prioritising and

done	3.1-3.3	sequencing complex tasks and workload • Applies systematic and analytical decision making processes for complex and non-routine situations • Uses digital technologies to manage ICT operations
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTSAS513 Develop detailed test plans	ICASAS513A Develop detailed test plans	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 ICTSAS513 Develop detailed test plans

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Performance Evidence

Evidence of the ability to:

- interpret software specifications
- develop a comprehensive test plan that documents:
 - test conditions or cases to be applied
 - data to be processed
 - automated testing coverage
 - expected results
 - activities, dependencies and effort required to conduct the system test.

Note: Evidence must be provided for at least TWO systems.

Knowledge Evidence

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

- describe key features of at least three different operating systems, with detailed knowledge of operating systems relevant to project requirements
- compare and contrast key features of automated test tools, with detailed knowledge of features and processes of tools relevant to the project
- discuss organisational requirements, including a testing schedule
- analyse system or application being tested
- describe quality benchmarks appropriate for testing
- describe testing techniques and process relevant to the project.

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 must be typical of those experienced in the systems administration and support field of work, and include access to:

- special purpose tools, equipment and materials
- industry software packages
- system engineering management plan
- test and evaluation program plan
- system or application suitable for testing plus its associated documentation
- organisational plans and documentation.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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