



Australian Government

ICTSAS520 Develop detailed test plans

Release: 1

ICTSAS520 Develop detailed test plans

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 4.0.

Application

This unit describes the skills and knowledge required to plan for testing information and communications technology (ICT) systems including software, 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 stakeholders	1.1 Determine structure of system and user accounts to understand test environment from system specifications 1.2 Develop and document draft test plan according to organisational testing procedures and system specifications 1.3 Notify stakeholders of test objectives and test schedule according to organisational testing procedures 1.4 Notify contact in operations of scheduled test and incorporate feedback to ensure preparedness and common understanding of implications and dependencies

2. Prepare test data and schedule	2.1 Gather test schedules according to organisational testing procedures 2.2 Correlate schedules with related functionality according to organisational testing procedures 2.3 Check testing schedule prior to validation according to organisational testing procedures 2.4 Prepare test according to the test plan and document expected results 2.5 Register test plan and initiate log entries according to organisational testing procedures
3. Complete test plan and acceptance processes	3.1 Validate test and acceptance processes with stakeholders 3.2 Finalise test plan and ensure documentation is compliant with organisational testing procedures

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
Reading	Analyses and evaluates textual and numerical information from a range of documentation to determine required action
Writing	Uses clear and precise language and document formats appropriate to the audience and task to convey explicit information and instructions
Oral Communication	Uses clear and accurate language, and inclusive and collaborative techniques to convey information to a range of personnel
Interact with others	Identifies and uses appropriate conventions and protocols when communicating with colleagues and others
Get the work done	- Accepts responsibility for planning, prioritising and 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

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTSAS520 Develop detailed test plans	ICTSAS513 Develop detailed test plans	Edits to elements and performance criteria to clarify intent. Updates to assessment requirements.	Equivalent unit

Links

Companion Volume Implementation Guides are available from VETNet -

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

Assessment Requirements for ICTSAS520 Develop detailed test plans

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Performance Evidence

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

- For two systems:
 - interpret software specifications to plan for system testing
 - develop a comprehensive test plan that includes:
 - test approach including activities
 - test conditions and cases to be applied
 - test objectives
 - acceptance processes
 - data to be processed
 - automated testing coverage
 - expected results
 - dependencies
 - quality benchmarks
 - gain acceptance of test objectives and test schedule from stakeholders and contact in operations
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Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements and performance criteria of this unit. This includes:

- Systems relevant to testing requirements
- System specifications analysis
- Implications of testing processes for organisation
- Quality benchmarks for comparison
- Testing approaches and processes and associated advantages and disadvantages in different scenarios

Assessment Conditions

Skills must be demonstrated in a workplace or simulated environment where the conditions are typical of those in an ICT working environment or workplace. This includes:

- Testing software package
- System engineering management plan
- Test and evaluation program plan
- System suitable for testing and associated documentation including system specifications
- User account details
- Individual stakeholders
- Individual contact in operations in the organisation
- Organisational testing procedures including acceptable test approaches, log entry requirements and quality benchmarks.

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

Links

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