



Australian Government

ICTSAS515 Manage the testing process

Release: 1

ICTSAS515 Manage the testing process

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 effectively manage and administer the end-to-end testing process, including test definition, execution and reporting.

It applies to experienced individuals who work autonomously in performing or organising others to complete complex technical 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. Develop test schedule	1.1 Determine testing requirements and objectives 1.2 Review test plan, where available 1.3 Develop testing timeline and allocate resources 1.4 Document test objectives and schedule according to test procedures and distribute to appropriate person 1.5 Obtain feedback and incorporate relevant changes
2. Complete test procedures	2.1 Copy necessary code into the testing environment 2.2 Allocate and manage personnel carrying out the testing process 2.3 Administer alterations or changes to the code

ELEMENT	PERFORMANCE CRITERIA
	2.4 Integrate code into production environment
3. Review the completeness and accuracy of the system	3.1 Administer full system test to ensure suitability of the system 3.2 Document outcomes of system test for use in subsequent development phases 3.3 Evaluate results of system test to determine acceptability of system

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	Compares and evaluates textual information and numerical data/specifications from a range of documentation to inform testing requirements
Writing	1.3-1.5, 2.3, 3.2	- Uses technically specific language and a range of writing styles to articulate requirements - Uses appropriate formats and structures to present information logically for different audiences and revises documents based on feedback and outcomes
Oral Communication	1.5, 2.2	Explains technical requirements and plans to relevant personnel, using clear and precise language and listening and questioning skills to confirm understanding
Interact with others	1.4, 1.5, 2.2	Identifies and uses appropriate conventions and protocols when communicating with colleagues and others
Get the work done	1.1-1.5, 2.1-2.4, 3.1-3.3	- Develops plans to manage relatively complex routine and non-routine tasks with an awareness of how they might contribute to broader strategy and goals - Uses problem solving techniques to analyse required outcomes in order to manage the testing process - Uses digital technologies to manage operations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTSAS515 Manage the testing process	ICASAS515A Manage the testing process	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 ICTSAS515 Manage the testing process

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Performance Evidence

Evidence of the ability to:

- develop a test schedule
- manage the testing procedure and process
- review the system based on test outcomes to determine acceptability.

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:

- compare and contrast testing techniques and automated test tools, explaining the key features and processes of each
- describe the key features of organisational procedures relating to the testing process
- explain system requirements describing key requirements and features
- analyse the system or application being tested.

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
- human resources
- requirements and design documentation
- test plan

- test hardware and environments (testing to be carried out on the same platform as the completed system, with scheduled testing to be on the production platform and the production environment required as part of test preparation)
- system or application suitable for testing.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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