



Australian Government

ICTSAS522 Manage the testing process

Release: 1

ICTSAS522 Manage the testing process

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 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 undertake testing of systems and applications.

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. Determine test scope and schedule	1.1 Determine testing requirements and objectives based on system requirements and acceptance criteria 1.2 Develop test plans based on system and testing requirements and objectives 1.3 Develop testing timelines and allocate resources according to organisational requirements and objectives 1.4 Document test schedules according to test procedures and provide to superior 1.5 Obtain feedback from superior on test requirements, objectives, and schedule and incorporate required changes
2. Manage test	2.1 Insert code into the test environment

procedures	2.2 Allocate personnel to testing procedures and manage work to ensure test procedures are carried out according to requirements and objectives 2.3 Administer alterations to the code if errors are detected 2.4 Integrate code into production environment 2.5 Administer full system test to ensure suitability of the system
3. Review the completeness and accuracy of the system	3.1 Record, prioritise, and investigate discrepancies and corrections according to organisational testing procedures 3.2 Brief superior on test results and agree required actions 3.3 Schedule required code changes based on test results 3.4 Evaluate results of system test against acceptance criteria to determine acceptability of system

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	Compares and evaluates textual information and numerical data and specifications from documentation to inform testing requirements
Writing	- 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	Explains technical requirements and plans to relevant personnel, using clear and precise language and listening and questioning skills to confirm understanding
Interact with others	Identifies and uses appropriate conventions and protocols when communicating with colleagues and others
Get the work done	- 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
ICTSAS522 Manage the testing process	ICTSAS515 Manage the testing process	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 ICTSAS522 Manage the testing process

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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:

- Develop one test schedule including plan, timeline, objectives and reporting arrangements
- Manage the testing process including allocating personnel to testing procedures on one occasion
- Review the system based on test results, brief organisational representative or line manager on outcomes and evaluate the results to determine acceptability on one occasion
- Identify, prioritise, schedule and evaluate required code changes based on test results on one occasion

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:

- Testing techniques and automated test tools and associated key features and processes
- Typical testing procedures, standards and requirements
- Key system requirements and features
- Resource allocation and scheduling approaches and methodologies
- System testing evaluation methodologies

Assessment Conditions

Skills in this unit 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 access to:

- Automated testing tools
- System requirements and acceptance criteria
- Organisational testing procedures and standards
- Project procedures and timeframe

- Individual organisational representative or line manager
- Individual personnel carrying out test procedures
- Test hardware and environments; test and production
- System or application suitable for testing

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

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