



Australian Government

ICTICT438 Select, configure and deploy software and hardware testing tools

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 6.0.

Application

This unit describes the skills and knowledge required to identify required software and hardware and deploy as diagnostic and testing tools.

It applies to individuals in a wide range of Information and Communications Technology (ICT) areas who are required to test software and hardware.

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

Unit Sector

General ICT

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. Identify process operational requirements	1.1 Identify testing process requirements according to organisational requirements 1.2 Identify any process conflicts and overlapping according to organisational requirements 1.3 Document and validate functional requirements according to organisational policies and procedures 1.4 Identify and confirm required resources, budget and manpower according to organisational requirements
2. Select hardware and software	2.1 Identify required hardware and software tools according to resource and budget requirements 2.2 Identify and analyse required products and equipment

ELEMENT	PERFORMANCE CRITERIA
	interdependencies 2.3 Document products, equipment, hardware and software requirements according to organisational policies and procedures
3. Configure and test hardware and software	3.1 Install and configure required hardware and software tools according to vendor guidelines and organisational requirements 3.2 Configure systems architecture according to vendor guidelines 3.3 Prepare, schedule and execute functionality tests and record outcomes according to organisational procedures 3.4 Track, interpret and correct functionality errors, as required 3.5 Document and lodge finalised hardware and software configuration according to organisational requirements and procedures

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Description
Numeracy	Performs mathematical calculations and interprets complex financial information
Reading	- Demonstrates comprehension of a large range of complex textual and diagrammatic information with systems related terminology - Determines organisational requirements and standards and selects applicable tools and processes
Writing	- Uses spelling and grammar together with applicable systems related terminology to document progress and results and develop user documentation - Converts jargon, terminology and acronyms into plain English - Uses specific scripting and syntax to install, configure and program system to user requirements
Teamwork	Communicates information and resources, provides training voluntarily and feedback to client when required
Planning and organising	Takes responsibility for planning and organising own workload, identifying ways of sequencing and combining elements for greater efficiency

Skill	Description
Problem solving	Initiates standard diagnostic procedures when responding to familiar and unfamiliar problems within immediate context
Self-management	Implements explicit and implicit protocols and meets expectations applicable to own role
Technology	Identifies purposes, specific functions and key features of common digital systems and tools, and operates them to complete routine tasks

Unit Mapping Information

Supersedes and is equivalent to ICTICT411 Select and employ software and hardware testing tools.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for ICTICT438 Select, configure and deploy software and hardware testing tools

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Performance Evidence

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

- identify and configure hardware and software tools to test one required environment.

In the course of the above, the candidate must:

- evaluate hardware and software that meet functional requirements
- select and use applicable automating tools
- develop automating process and produce a measurable outcome according to specified requirements
- validate hardware and software performance against client usage requirements
- document functional requirements and finalised process

Knowledge Evidence

To The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- batch scripting of nominated automating software routines
- applicable aspects of the client business domain applicable to using software and hardware testing tools
- vendor product directions
- industry standard hardware and software products, and their features and capabilities including:
 - development tools, including animation development tools
 - development package automating options
 - third-party tools for automating a range of software applications
 - media management tools
 - interaction between applicable hardware and software products.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- industry standard hardware and software
- industry standard automating vendor products
- client requirements documentation
- organisational requirements.

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

Links

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