



Australian Government

Department of Education, Employment and Workplace Relations

ICA40611 Certificate IV in Information Technology Testing

Release: 1

ICA40611 Certificate IV in Information Technology Testing

Modification History

Release	Comments
Release 1	This Qualification first released with <i>ICA11 Information and Communications Technology Training Package version 1.0</i>

Description

This qualification provides the skills and knowledge for an individual to be competent in a range of ICT positions directly related to testing, either as an assistant tester working mostly independently or as part of a team.

Job roles

Possible job titles relevant to this qualification include:

- assistant ICT tester
- assistant software or systems tester
- assistant web tester.

Pathways Information

Pathways into the qualification

Preferred pathways for candidates considering this qualification include:

- after achieving ICA30111 Certificate III in Information, Digital Media and Technology, or other relevant qualifications or units equivalent to the core of ICA30111

OR

- with demonstrated vocational experience in a range of testing environments or similar.

Pathways from the qualification

ICA50111 Diploma of Information Technology, or a range of other Diploma qualifications.

Licensing/Regulatory Information

There is no link between this qualification and licensing, legislative or regulatory requirements. However users should confirm requirements with the relevant federal, state or territory authority. There may be some alignment with industry standard certification competencies.

Entry Requirements

There are no entry requirements for this qualification.

Employability Skills Summary

The following table contains a summary of the employability skills required by industry for this qualification. The employability skills facets described here are broad industry requirements that may vary depending on qualification packaging options.

Employability skill	Industry/enterprise requirements for this qualification
Communication	• preparing briefs on client business requirements • creating technical documentation in plain English • writing and presenting reports on the results of standard diagnostic and troubleshooting tests
Teamwork	• working collaboratively with team members
Problem-solving	• analysing project design • solving technical hardware, software, web and network problems
Initiative and enterprise	• responding to clients in a timely manner • identifying, analysing and evaluating information from a variety of sources
Planning and organising	• preparing feasibility reports that take into account project scope, time, cost, quality, communications and risk management
Self-management	• taking responsibility for own outputs in relation to specified quality standards • working according to the Australian Computer Society Code of Ethics regarding security, legal, moral and ethical issues
Learning	• maintaining knowledge of tools and software applications and the goods and services provided • obtaining client evaluation and feedback • providing one-to-one instruction for clients and users
Technology	• selecting and using software and hardware diagnostic tools, including for multimedia contexts and automated testing environments

Packaging Rules

Total number of units = 20

8 core units *plus*

12 elective units

The elective units consist of:

- up to 12 from the elective units listed below
- up to 4 from elsewhere in ICA11 or any other Training Package or accredited course at Certificate IV or Diploma level.

The elective units chosen must be relevant to the work outcome and meet local industry needs.

Core units

BSBSUS301A Implement and monitor environmentally sustainable work practices

ICAICT401A Determine and confirm client business requirements

ICAICT408A Create technical documentation

ICAICT411A Select and employ software and hardware testing tools

ICAICT418A Contribute to copyright, ethics and privacy in an IT environment

ICAPMG401A Support small scale IT projects

ICAPRG405A Automate processes

ICASAS301A Run standard diagnostic tests

Elective units

BSBCRT401A Articulate, present and debate ideas

ICAICT417A Identify, evaluate and apply current industry-specific technologies to meet industry standards

ICANWK403A Manage network and data integrity

ICANWK404A Install, operate and troubleshoot a small enterprise branch network

ICANWK501A Plan, implement and test enterprise communication solutions

ICAPRG404A Test applications

ICASAS401A Perform unit test for a class

ICASAS503A Perform systems tests

ICASAS504A Develop and conduct client acceptance test

ICASAS513A Develop detailed test plans

ICASAS514A Perform integration tests

ICASAS515A Manage the testing process

ICASAS516A Perform stress and load tests on integrated platforms

ICAWEB406A Create website testing procedures

ICAWEB407A Conduct operational acceptance tests of websites

ICAWEB423A Ensure dynamic website security

ICTSUS4183A Install and test renewable energy system for ICT networks

ICTTEN4198A Install, configure and test an internet protocol network