



Australian Government

Department of Education, Employment and Workplace Relations

ICA50611 Diploma of Website Development

Release: 1

ICA50611 Diploma of Website Development

Modification History

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

Description

This qualification provides the skills and knowledge for an individual to design, build and manage websites as an independent web developer or as part of a team.

Job roles

Possible job titles relevant to this qualification include:

- web developer
- web development manager
- web programmer
- website manager
- webmaster
- web administrator
- internet developer.

Pathways Information

Pathways into the qualification

- after achieving ICA40311 Certificate IV in Web-Based Technologies, or other relevant qualifications or units equivalent to the core of ICA40311.

OR

- with demonstrated vocational experience in a range of work environments in a website development or management role, such as web developer, web programmer, web manager or equivalent.

Pathways from the qualification

ICA11 Advanced Diploma or Vocational Graduate Certificate qualifications or other higher education sector 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	<ul style="list-style-type: none">communicating concepts and solutions for complex issues to colleagues and clientsapplying plain English to written documents and reportswriting complex reports for business requiring depth of analysis and evaluation of information
Teamwork	<ul style="list-style-type: none">coordinating groups and teamsparticipating in teams concerned with planning and evaluation functions
Problem-solving	<ul style="list-style-type: none">analysing and planning approaches to technical problems or management requirementsdeveloping and implementing risk management plans
Initiative and enterprise	<ul style="list-style-type: none">transferring and applying theoretical concepts and technical or creative skills to a range of situations
Planning and organising	<ul style="list-style-type: none">planning and documenting a process to design, build and test a dynamic website so that it meets technical requirements and web development standardsusing project planning skills in relation to project scope, time, cost, quality, communications and risk management
Self-management	<ul style="list-style-type: none">taking personal responsibility and demonstrating autonomy in performing complex technical operations or organising others
Learning	<ul style="list-style-type: none">undertaking awareness training to inform relevant stakeholders
Technology	<ul style="list-style-type: none">identifying technology needssourcing, purchasing, installing, configuring and testing system components, including software and hardware

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 Diploma or Advanced Diploma level.

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

Core units

BSBOHS509A Ensure a safe workplace

ICADBS504A Integrate database with a website

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

ICAICT515A Verify client business requirements

ICAWEB501A Build a dynamic website

ICAWEB502A Create dynamic web pages

ICAWEB503A Create web-based programs

ICAWEB516A Research and apply emerging web technology trends

Elective units

BSBEBU501A Investigate and design e-business solutions

BSBSUS301A Implement and monitor environmentally sustainable work practices

ICADBS412A Build a database

ICADBS502A Design a database

ICAICT406A Build a graphical user interface

ICAICT503A Validate quality and completeness of system design specifications

ICAICT509A Gather data to identify business requirements

ICAICT511A Match IT needs with the strategic direction of the enterprise

ICAICT514A Identify and manage the implementation of current industry-specific technologies

ICANWK406A Install, configure and test network security

ICANWK514A Model preferred system solutions

ICAPMG501A Manage IT projects

ICAPRG406A Apply introductory object-oriented language skills

ICAPRG413A Use a library or pre-existing components

ICAPRG415A Apply skills in object-oriented design

ICAPRG418A Apply intermediate programming skills in another language

ICAPRG425A Use structured query language

ICAPRG501A Apply advanced object-oriented language skills

ICAPRG503A Debug and monitor applications

ICAPRG504A Deploy an application to a production environment

ICAPRG505A Build advanced user interface

ICAPRG506A Design application architecture
ICAPRG507A Implement security for applications
ICAPRG509A Build using rapid application development
ICAPRG512A Prepare for the build phase of an IT system
ICAPRG513A Coordinate the build phase of an IT system
ICAPRG514A Prepare for software development using rapid application development
ICAPRG515A Review developed software
ICAPRG523A Apply advanced programming skills in another language
ICAPRG527A Apply intermediate object-oriented language skills
ICAPRG601A Develop advanced mobile multi-touch applications
ICASAD501A Model data objects
ICASAD502A Model data processes
ICASAD506A Produce a feasibility report
ICASAS503A Perform systems tests
ICASAS504A Develop and conduct client acceptance test
ICASAS505A Review and update disaster recovery and contingency plans
ICAWEB504A Build a document using eXtensible markup language
ICAWEB505A Develop complex web page layouts
ICAWEB506A Develop complex cascading style sheets
ICAWEB508A Develop website information architecture
ICAWEB509A Use site server tools for transaction management
ICTTEN5204A Produce technical solutions from business specifications

Selecting elective units for different outcomes

The following examples are designed to assist in the selection of appropriate electives for particular outcomes at this level, but are in no way prescriptive.

Web administration

Core units plus:

- ICASAS504A Develop and conduct client acceptance test
- ICAWEB508A Develop website information architecture
- ICASAS503A Perform systems tests
- ICASAS505A Review and update disaster recovery and contingency plans
- ICAWEB509A Use site server tools for transaction management
- ICAICT503A Validate quality and completeness of system design specifications

Web design

Core units plus:

- ICAWEB504A Build a document using eXtensible markup language
- ICAWEB506A Develop complex cascading style sheets
- ICAWEB505A Develop complex web page layouts

Web programming

Core units plus:

- ICAPRG501A Apply advanced object-oriented language skills
- ICAPRG523A Apply advanced programming skills in another language
- ICAPRG527A Apply intermediate object-oriented language skills
- ICAPRG418A Apply intermediate programming skills in another language
- ICAPRG406A Apply introductory object-oriented language skills
- ICAPRG415A Apply skills in object-oriented design
- ICAICT406A Build a graphical user interface