



Australian Government

Department of Education, Employment and Workplace Relations

ICA50605 Diploma of Information Technology (Website Development)

Release: 1

ICA50605 Diploma of Information Technology (Website Development)

Modification History

Not Applicable

Description

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This qualification provides the skills and knowledge for an individual to be competent as a senior ICT professional with responsibilities spanning design, development, site performance, database integration through to implementation and acceptance testing. The qualification has a strong common core ICT Diploma base with the potential for up to 30 per cent of all units to come from outside of ICA05 if appropriate.

Job Roles

Depending on the level of responsibility and the particular job roles involved, duties may include integration of internal business systems with a browser interface, designing the processes and architecture of an enterprise's internet presence, aligning the client's web presence with its business strategy and specifying e-business application system requirements. At a project management level, a person may provide advice to business units and coordinate related activities, coordinate the on-time, on-budget delivery of e-business solutions or oversee the technical and creative team from conception to delivery.

Typically, web development professionals have experience in programming and systems design, with e-commerce/e-business roles generally calling for experience in either business systems analysis and systems development.

Possible job titles include:

- Analyst Programmer
- Analyst/Systems Analyst
- E-business Development Manager
- Ecommerce Architect
- Ecommerce Consultant
- Ecommerce Programmer
- eServices - Web Programmer
- Intranet Engineer
- Java Developer
- Manager Business Development
- Perl Programmer
- Project Manager
- Senior Architect - Ecommerce
- Solutions/Applications Architect
- WAP Designer/Developer
- Web Architect
- Web Business Development Manager
- Web Developer
- Web Development Manager
- Web Production Manager
- Web Programmer
- Web Programmer/Software Engineer
- Website Group Manager
- Web Usability Engineer
- Webmaster/Internet Developer

Prerequisite Requirements

A number of units within this qualification have prerequisites. These are detailed as follows:

Code and Title	Prerequisite units required
ICAA5141C Design and develop dynamic websites to meet technical requirements	ICAA4142C Design a website to meet technical requirements #
ICAA5151B Gather data to identify business requirements	ICAA4041C Determine and confirm client business expectations and needs ICAA4233B Determine and apply appropriate development methodologies
ICAA5158B Translate business needs into technical requirements	ICAA4233B Determine and apply appropriate development methodologies
ICAP5039B Match IT needs with the strategic direction of the enterprise	ICAA4041C Determine and confirm client business expectations and needs
ICAT5081B Perform systems test	ICAT3025B Run standard diagnostic tests
ICAT5083B Develop and conduct client acceptance test	ICAW4027B Relate to clients on a business level

This unit has prerequisite requirements. Section 1.6 provides further details.

Pathways Information

Not Applicable

Licensing/Regulatory Information

Not Applicable

Entry Requirements

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The following units contain the basic fundamentals of ICT knowledge and skills for all qualifications at Certificate III in IT and above. These units or demonstrated equivalence are required for entry into this qualification:

BSBCM106A	Follow workplace safety procedures
ICAD2012B	Design organisational documents using computing packages
ICAU1128B	Operate a personal computer
ICAU2005B	Operate computer hardware
ICAU2006B	Operate computing packages
ICAU2013B	Integrate commercial computing packages
ICAU2231B	Use computer operating system
ICAW2001B	Work effectively in an IT environment
ICAW2002B	Communicate in the workplace

Employability Skills Summary

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The following table contains a summary of the Employability Skills required for a Web Developer/Architect. The Employability Skills facets described here are broad industry requirements that may vary depending on qualification packaging options.

Employability Skill	Industry requirements for this qualification include:
Communication	<ul style="list-style-type: none"> communicating clear concepts and solutions to complex issues in an unambiguous manner to colleagues and clients using plain English literacy and communication skills in relation to analysis, evaluation and presentation of information, for example when record keeping and auditing using report writing skills for business, requiring depth in some areas, and analysis and evaluation of information, for example when developing supporting documentation regarding maintenance issues
Teamwork	<ul style="list-style-type: none"> coordinating groups and teams participating 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 requirements developing and implementing risk management plans
Initiative and Enterprise	<ul style="list-style-type: none"> transferring and applying theoretical concepts and/or 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

Employability Skill	Industry requirements for this qualification include:
	and web development standards <ul style="list-style-type: none"> • using project planning skills in relation to scope, time, cost, quality, communications and risk management for example, when reviewing user requirements
Self-management	<ul style="list-style-type: none"> • taking personal responsibility and 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 needs, sourcing, purchasing, installing, configuring and testing website components including software and hardware

Packaging Rules

Qualification Structure

To attain the ICA50605 Diploma of Information Technology (Website Development) 20 units must be achieved:

- 16 core units; plus
- 4 elective units

Achieve 16 Core Units

Core

BSBPMG505A	Manage project quality
ICAA5054C	Validate quality and completeness of system design specifications
ICAA5056B	Prepare disaster recovery and contingency plans
ICAA5141C	Design and develop dynamic websites to meet technical requirements
ICAA5146B	Develop website information architecture
ICAA5151B	Gather data to identify business requirements
ICAA5158B	Translate business needs into technical requirements
ICAB5165B	Create dynamic web pages
ICAB5180C	Integrate database with a website
ICAP5039B	Match IT needs with the strategic direction of the enterprise
ICAS5102B	Establish and maintain client user liaison
ICAS5202B	Ensure privacy for users
ICAT5081B	Perform systems test
ICAT5083B	Develop and conduct client acceptance test
ICAU5208B	Use site server tools for transaction management
PSPPM502B	Manage complex projects

Achieve 4 Elective Units Chosen from the Following Sources (Listed in Recommended Order)

- *Information Technology and Communications Training Package ICA05* at Diploma or Advanced Diploma (up to 2 units can be selected at Certificate IV); and/or

- preferred Training Packages at Diploma or Advanced Diploma (ICT02 Telecommunications; BSB07 Business Services; CUF07 Screen and Media; ICP05 Printing and Graphic Arts); and/or
- any other Training Package (to maximum of 2 units) at Diploma or Advanced Diploma based on documented industry or enterprise needs
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