



Australian Government

Department of Education, Employment and Workplace Relations

ICA50805 Diploma of Information Technology (Systems Analysis and Design)

Release: 1

ICA50805 Diploma of Information Technology (Systems Analysis and Design)

Modification History

Not Applicable

Description

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This qualification provides the skills and knowledge for an individual to be competent in high order technical skills in information systems and business analysis and design. The qualification has a strong ICT base with the potential for inclusion of a range of broader ICT or business units to suit particular needs.

The qualification places emphasis on client interaction and relationships as well as close attention to organisational and business needs. It has a strong core and fewer elective choices than other Diplomas.

Job Roles

Possible job titles include:

- Applications Architect
- Business Analyst
- Systems Analyst
- Systems Architect
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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:

BSBCMN106A	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 Junior Systems Analyst. 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 clientsusing plain English literacy and communication skills in relation to analysis, evaluation and presentation of information for example when developing policies and proceduresusing report writing skills for business, requiring depth in some areas, and analysis and evaluation of information, for example when developing supporting documentation
Teamwork	<ul style="list-style-type: none">participating in teams concerned with planning and evaluation functions, for example when identifying implementation areas to be developed
Problem Solving	<ul style="list-style-type: none">analysing and planning approaches to technical problems or management requirementsholding discussions on quality issues with development staff and establishing agreed actions
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

Employability Skill	Industry requirements for this qualification include:
Planning and Organising	<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"> providing learning and development opportunities for the project team
Technology	<ul style="list-style-type: none"> identifying technology needs, sourcing, purchasing, installing, configuring and testing system components including software and hardware

Packaging Rules

Qualification Structure

To attain the ICA50805 Diploma of Information Technology (Systems Analysis and Design) 21 units must be achieved:

- 17 core units; plus
- 4 elective units

Achieve 17 Core Units

Core

BSBPMG505A Manage project quality
 ICAA5046B Model preferred system solutions
 ICAA5050B Develop detailed component specifications from project specifications
 ICAA5056B Prepare disaster recovery and contingency plans
 ICAA5139B Design a database
 ICAA5151B Gather data to identify business requirements
 ICAA5153B Model data objects
 ICAA5154B Model data processes
 ICAA5158B Translate business needs into technical requirements
 ICAB5071B Review developed software
 ICAB5074B Monitor the system pilot
 ICAI5086B Scope implementation requirements
 ICAP5039B Match IT needs with the strategic direction of the enterprise
 ICAS5102B Establish and maintain client user liaison
 ICAS5202B Ensure privacy for users
 ICAT5077B Develop detailed test plan
 PSPPM502B Manage complex projects

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

- ICA05 Information and Communications Technology Training Package* 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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Prerequisite Requirements

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

Code and Title	Prerequisite units required
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