



Australian Government

Department of Education, Employment and Workplace Relations

ICA40705 Certificate IV in Information Technology (Systems Analysis and Design)

Release: 1

ICA40705 Certificate IV in 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 examining existing systems and designing or modifying them to suit changing user needs. Graduates at this level would most likely work as part of a project team. The qualification has a strong ICT base but provides the potential for inclusion of up to 30 per cent of the total required units from other packages such as BSB07 Business Services Training Package.

Job Roles

The qualification is designed to provide an individual with basic technical skills for a 'junior' business or systems analysis and design position.

Possible job titles include:

- IT Analyst
- IT Architect
- IT Designer
- Systems Analyst
- System Designer

Prerequisite Requirements

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

Code and title	Prerequisite units required
ICAB4060B Identify physical database requirements	ICAA4041C Determine and confirm client business expectations and needs
ICAB4136B Use structured query language to create database structures and manipulate data	ICAB4225B Automate processes
ICAP4037B Contribute to the development of a strategy plan	ICAA4041C Determine and confirm client business expectations and needs

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 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"> determining and confirming client business expectations and needs documenting system requirements and problems recording client responses
Teamwork	<ul style="list-style-type: none"> exchanging messages with other project members and actively participating in IT community activities scheduling feedback meetings to discuss reports and possible next actions with stakeholders
Problem Solving	<ul style="list-style-type: none"> using project project planning skills to set benchmarks and scope, such as contributing to the identification of business strategy, vision, goals and objectives and confirming that the proposed project will come in on time and within budget
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"> contributing to the development of a strategic plan
Self-management	<ul style="list-style-type: none"> taking responsibility for own outputs in relation to specified quality standards

Employability Skill	Industry requirements for this qualification include:
	<ul style="list-style-type: none"> working within the Australian Computer Society code of ethics regarding security, legal, moral and ethical issues
Learning	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> selecting and using software and hardware diagnostic tools, including for multimedia contexts and automated testing environments

Packaging Rules

Qualification Structure

To attain the ICA40705 Certificate IV in Information Technology (Systems Analysis and Design) 22 units must be achieved:

- 15 core units; plus
- 7 elective units

Achieve 15 Core Units

Core

BSBCMN304A Contribute to personal skill development and learning
 ICAA4041C Determine and confirm client business expectations and needs
 ICAA4233B Determine and apply appropriate development methodologies
 ICAB4059B Develop detailed technical design
 ICAB4060B Identify physical database requirements
 ICAB4136B Use structured query language to create database structures and manipulate data
 ICAB4170B Build a database
 ICAB4225B Automate processes
 ICAD4043B Develop and present a feasibility report
 ICAD4217B Create technical documentation
 ICAP4037B Contribute to the development of a strategy plan
 ICAT4221B Locate equipment, system and software faults
 ICAW4026B Coordinate and maintain work teams
 ICAW4214B Maintain ethical conduct
 PSPPM402B Manage simple projects

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

- ICA05 Information and Communications Technology Training Package* (at Certificate III (maximum of 2 units), Certificate IV or Diploma); and/or
- preferred Training Packages, BSB07 Business Services and/or CUF07 Screen and Media and/or CUV03 Visual Arts, Craft and Design (maximum of 3 units at Certificate IV or Diploma)

Achieve 3 Elective Units from the Following Sources (Listed in Recommended Order)

- any of the above elective sources; and/or
- any other Training Package (up to a maximum 2 units and at Certificate IV or Diploma) based on documented industry or enterprise needs
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