



Australian Government

ICA40711 Certificate IV in Systems Analysis and Design

Release 2

ICA40711 Certificate IV in Systems Analysis and Design

Modification History

Release	Comments
Release 2	This Qualification released with <i>ICA11 Information and Communications Technology Training Package version 2.0</i> Updated elective unit to most current version.
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 work as part of a project team to analyse and redesign existing systems to meet client business requirements.

Job roles

Possible job titles relevant to this qualification include:

- information technology support analyst
- information technology designer
- systems support analyst
- system designer
- operational support analyst
- technical support analyst.

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 work environments in an information technology support role.

Pathways from the qualification

ICA50811 Diploma of Systems Analysis and Design, 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	<ul style="list-style-type: none">• determining and confirming client business expectations and needs• documenting system requirements and problems in plain English• writing and presenting detailed technical reports
Teamwork	<ul style="list-style-type: none">• organising own work priorities• supporting team members with and coordinating project activities• scheduling feedback meetings to discuss reports and possible next actions with stakeholders
Problem-solving	<ul style="list-style-type: none">• using project planning methodologies to set benchmarks and scope• locating, analysing, testing and rectifying faults• contributing to the identification of business strategy, vision, goals and objectives• confirming that the proposed project will come in on time and within budget
Initiative and enterprise	<ul style="list-style-type: none">• responding to clients in a timely manner• 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 organising project and team meetings• 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• working according to 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
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

Total number of units = 22

7 core units plus

15 elective units

The elective units consist of:

- **up to 15 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

ICAICT403A Apply software development methodologies

ICAICT405A Develop detailed technical design

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

ICAPRG405A Automate processes

ICASAD401A Develop and present feasibility reports

Elective units

BSBCRT401A Articulate, present and debate ideas

BSBWOR301B Organise personal work priorities and development

ICADBS401A Identify physical database requirements

ICADBS412A Build a database

ICAICT402A Determine project specifications and secure client agreement

ICAICT408A Create technical documentation

ICAICT411A Select and employ software and hardware testing tools

ICAICT412A Coordinate and maintain IT work teams

ICAICT413A Relate to clients on a business level

ICAICT416A Contribute to the development of strategic plans

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

ICAPMG401A Support small scale IT projects

ICAPRG404A Test applications

ICAPRG406A Apply introductory object-oriented language skills

ICAPRG414A Apply introductory programming skills in another language

ICAPRG415A Apply skills in object-oriented design

ICAPRG419A Analyse software requirements

ICAPRG425A Use structured query language

ICTTEN4081A Locate, diagnose and rectify faults