



Australian Government

ICA50311 Diploma of Information Technology Systems Administration

Release 2

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Modification History

Release	Comments
Release 2	<i>This version first released with ICA11 Information and Communications Technology Training Package Version 2.</i> Addition of two new units of competency to electives.
Release 1	<i>This Qualification first released with ICA11 Information and Communications Technology Training Package version 1.0</i>

Description

This qualification provides the skills and knowledge for an individual to be competent in administering a variety of networked computer systems. The qualification has a strong information technology base of core units with the potential for inclusion of a range of broader industry-specific units in the areas of virtualisation, sustainability and project management to suit particular needs.

Job roles

Possible job titles relevant to this qualification include:

- assistant IT manager
- assistant system manager
- internet/intranet administrator
- internet/intranet systems administrator
- systems administrator.

Pathways Information

Pathways into the qualification

Preferred pathways for candidates considering this qualification include:

- after achieving ICA40211 Certificate IV in Information Technology Support, or other relevant qualifications or units equivalent to the core of ICA40211

OR

- with demonstrated vocational experience in a range of systems administration areas, including systems, internet and intranet support or similar.

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"> • identifying, analysing and evaluating information from a variety of sources • using plain English, literacy and communication skills in relation to analysis, evaluation and presentation of information • writing complex technical briefs and reports
Teamwork	<ul style="list-style-type: none"> • managing project team members and activities • working collaboratively with team members
Problem-solving	<ul style="list-style-type: none"> • analysing project design • solving technical hardware, software and network problems • analysing business specifications and administering technical solutions
Initiative and enterprise	<ul style="list-style-type: none"> • initiating and maintaining client user liaison • involving clients in the development of feasibility studies and strategic business initiatives • anticipating possible disasters and responding with appropriate contingency recovery plans
Planning and organising	<ul style="list-style-type: none"> • developing plans for sustainability and competitive advantage • preparing feasibility reports that take into account project scope, time, cost, quality, communications and risk management • developing workplace policy for sustainability
Self-management	<ul style="list-style-type: none"> • managing own time and work priorities to plan project and schedule • taking responsibility for own and others' outputs in relation to specified quality standards • managing systems security and testing processes • meeting the Australian Computer Society Code of Ethics regarding security, legal, moral and ethical issues
Learning	<ul style="list-style-type: none"> • extending own knowledge of tools and software applications and the goods and services provided • devising and implementing client evaluation and feedback methodologies • providing one-to-one liaison for clients and users
Technology	<ul style="list-style-type: none"> • selecting and administering software and hardware diagnostic tools

Packaging Rules

Total number of units = 19

10 core units plus

9 elective units, of which:

- 5 units must be from the elective units listed below
- the remaining units may be from the elective units below or from elsewhere in ICA11 or any other Training Package or accredited course at Certificate IV, Diploma or Advanced Diploma level.

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

Core units

BSBSUS501A Develop workplace policy and procedures for sustainability

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

ICAICT509A Gather data to identify business requirements

ICANWK513A Manage system security

ICASAS406A Implement and hand over system components

ICASAS502A Establish and maintain client user liaison

ICASAS505A Review and update disaster recovery and contingency plans

ICASAS512A Review and manage delivery of maintenance services

ICASAS515A Manage the testing process

ICTTEN5204A Produce technical solutions from business specifications

Elective units

ICAICT501A Research and review hardware technology options for organisations

ICAICT511A Match IT needs with the strategic direction of the enterprise

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

ICAICT515A Verify client business requirements

ICANWK501A Plan, implement and test enterprise communication solutions

ICANWK502A Implement secure encryption technologies

ICANWK504A Design and implement an integrated server solution

ICANWK505A Design, build and test a network server

ICANWK506A Configure, verify and troubleshoot WAN links and IP services in a medium enterprise network

ICANWK509A Design and implement a security perimeter for ICT networks

ICANWK525B Configure an enterprise virtual computing environment

ICANWK527B Manage an enterprise virtual computing environment

ICANWK529A Install and manage complex ICT networks

ICANWK531A Configure an internet gateway

ICANWK533A Configure and manage advanced virtual computing environments

ICANWK534A Monitor and troubleshoot virtual computing environments

ICANWK535A Install an enterprise virtual computing environment

ICANWK615A Design and configure desktop virtualisation

ICAPMG501A Manage IT projects

ICASAD506A Produce a feasibility report

ICASAS503A Perform systems tests

ICASAS513A Develop detailed test plans

ICASAS517A Use network tools

ICASAS518A Install and upgrade operating systems

ICTSUS5187A Implement server virtualisation for a sustainable ICT system

ICTSUS6233A Integrate sustainability in ICT planning and design projects

ICTSUS6234A Establish a business case for sustainability and competitive advantage in ICT projects

ICTTEN6206A Produce an ICT network architecture design