



Australian Government

Department of Education, Employment and Workplace Relations

ICA40405 Certificate IV in Information Technology (Networking)

Release: 1

ICA40405 Certificate IV in Information Technology (Networking)

Modification History

Not Applicable

Description

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This qualification develops skills and knowledge in the installation and management of simple networks and provides for an individual to be effective in network management either as an independent ICT specialist or as part of a team.

The qualification has a number of logical relationships with vendor certifications for ICT networking technologies. The units *ICAI4097C Install and configure a network* and *ICAI4029C Install network hardware to a network* could be used as a conduit to deliver CISCO semester 1 training.

Job Roles

A competent person could work as a network manager or administrator within an organisation.

Possible job titles include:

- Network Administrator
- Network Manager
- Network Operations Analyst
- Network Operations Engineer
- Network Operations Technician
- Network Technician

Prerequisite Requirements

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

Code and Title		Prerequisite units required	
ICAB4220B	Create scripts for networking	ICAB4225B	Automate processes
ICAB4247A	Link an RFID system to a database	ICAB4136B	Use structured query language to create database structures and manipulate data
ICAI4097C	Install and configure a network	ICAI3101B	Install and manage network protocols
ICAI4099B	Build an intranet	ICAI3101B	Install and manage network protocols
		ICAS3120C	Configure and administer a network operating system #
		ICAI4029C	Install network hardware to a network
ICAI4188B	Install and maintain a server	ICAI3101B	Install and manage network protocols
		ICAI3020B	Install and optimise operating system software
		ICAS3120C	Configure and administer a

Code and Title		Prerequisite units required	
		network operating system	
ICAI4244A	Install and maintain an RFID system	ICAI3101B	Install and manage network protocols
		ICAI4029B	Install network hardware to a network
ICAI4249A	Implement and evaluate data security	ICAS3024B	Provide basic system administration
		ICAS4124B	Monitor and administer network security #
ICAI4251A	Implement and evaluate network and telecommunication security	ICAS4119B	Monitor and administer system security #
		ICAS4124B	Monitor and administer network security #
ICAS4124B	Monitor and administer network security	ICAS3032B	Provide network systems administration #
ICAS4127B	Support system software	ICAI3020B	Install and optimise operating system software

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 Network Administrator. 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"> writing skills for business, requiring depth in some areas, and analysis and evaluation of information in a defined range of areas (e.g. when hardware and asset recording documentation is completed in line with organisational requirements)
Teamwork	<ul style="list-style-type: none"> consulting with the work team to review proposed changes against current and future business requirements establishing and improving work teams in an IT environment
Problem Solving	<ul style="list-style-type: none"> debugging code solving network problems related to the installation of hardware, software and networks
Initiative and Enterprise	<ul style="list-style-type: none"> developing new criteria and procedures for performing current practices identifying, analysing and evaluating information from a variety of sources
Planning and Organising	<ul style="list-style-type: none"> creating project plans to guide the development of systems methodologies planning and designing an intranet preparing feasibility reports taking into account the scope,

Employability Skill	Industry requirements for this qualification include:
	time, cost, quality, communications and risk management
Self-management	<ul style="list-style-type: none"> taking responsibility for own output in relation to specified quality standards 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 multimedia contexts and automated testing environments

Packaging Rules

Qualification Structure

To attain the ICA40405 Certificate IV in Information Technology (Networking) 20 units must be achieved:

- 16 core units; plus
- 4 elective units

Achieve 16 Core Units

Core

BSBCMN304A	Contribute to personal skill development and learning
ICAA4041C	Determine and confirm client business expectations and needs
ICAB4220B	Create scripts for networking
ICAB4225B	Automate processes
ICAD4043B	Develop and present a feasibility report
ICAD4217B	Create technical documentation
ICAI4029C	Install network hardware to a network
ICAI4030B	Install software to networked computers
ICAI4097C	Install and configure a network
ICAI4099B	Build an intranet
ICAI4188B	Install and maintain a server
ICAS4124B	Monitor and administer network security
ICAS4127B	Support system software
ICAT4221B	Locate equipment, system and software faults
ICAW4214B	Maintain ethical conduct
PSPPM402B	Manage simple projects

Achieve 2 Elective Units Chosen from the Following Sources (Listed in Recommended Order)

- electives listed below; and/or

- *ICA05 Information and Communications Technology Training Package* (at Certificate III [maximum of 2 units], Certificate IV or Diploma); and/or
- *BSB07 Business Services Training Package* (at Certificate IV or Diploma)

Achieve 2 Elective Units Chosen from the Following Sources (Listed in Recommended Order)

- any other Training Package (at Certificate IV or Diploma) based on documented industry or enterprise needs; and/or
- electives listed below

Electives

ICAI4244A	Install and maintain an RFID system
ICAI4249A	Implement and evaluate data security
ICAI4251A	Implement and evaluate network and telecommunication security
ICAB4247A	Link an RFID system to a database