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# Diploma of Information Technology (Networking) ICA50405

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## Description

This qualification provides the skills and knowledge for an individual to be competent in high level network management and engineering. The qualification has a strong ICT networking base with the potential for inclusion in a range of broader ICT internetworking, security or e-business units to suit particular needs.

## Prerequisites

BSBCM1106A Follow workplace safety procedures	ICAW2001A Work effectively in an IT environment
ICAU1128A Operate a personal computer	ICAW2002A Communicate in the workplace
ICAU2006A Operate computing packages	ICAU2013A Integrate commercial computing packages
ICAU2231A Use computer operating system	ICAU2005A Operate computer hardware
ICAD2012A Design organisational documents using computing packages	

## Requirements

Participants must successfully complete 18 units of competency including 8 core units, 6 units from the specialist electives list, plus 4 elective units.

## Duration

Two years full-time; four years part-time.

## On-The-Job Training

Much of the training is delivered on-the-job through reading, interacting with colleagues & completing project work. You only need to attend off-the-job training if a competency cannot be acquired at the workplace.

## Recognition of Current Competencies (RCC)

You may already have many of the skills required for this qualification. There is no need to be trained in things you can already do. NDA will assess current skills and give recognition for relevant competencies.

## Units

### 8 Core Units

BSBPM505A Manage project quality	ICAS5202A Ensure privacy for users
ICAI5098A Install & manage complex networks	PSPPM502B Manage complex projects
ICAA5045A Produce network architecture design	ICAI5100A Build an internet infrastructure
ICAA5158A Translate business needs into technical requirements	ICAA5056A Prepare disaster recovery & contingency plans

### 6 Specialist Elective Units

ICAA5044A Develop system infrastructure design plan	ICAI5174A Install high-end switches in multi-switched LANs
ICAA5144A Determine best fit topology for a local network	ICAI5176A Install and configure router
ICAA5145A Identify best fit topology for a wide area network	ICAI5196A Implement secure encryption technologies
ICAA5151A Gather data to identify business requirements	ICAI5197A Install and maintain valid authentication processes
ICAB5159A Build a security shield for a network	ICAP5039A Match IT needs with the strategic direction of the enterprise
ICAB5160A Build and configure a server	ICAS5102A Establish and maintain client user liaison
ICAB5237A Build a high performance security perimeter	ICAS5123A Manage network security
ICAB5238A Build a highly secure firewall	ICAS5192A Configure an internet gateway
ICAI5173A Install & configure a single-segment LAN switch	

### Plus 4 Elective Units Chosen from the following sources:

- any of the above specialist electives; and / or
- elsewhere in the ICA05 package Certificate IV, Diploma or Advanced Diploma (max 2 units from cert IV); and / or
- preferred training packages at Diploma or Advanced Diploma (ICT02, BSB01, CUF01, ICP05; and/or
- any other training package (to a maximum of 2 units) at Diploma or Advanced Diploma based on documented industry or enterprise needs.