



Australian Government

ICT50418 Diploma of Information Technology Networking

Release 1

ICT50418 Diploma of Information Technology Networking

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 4.0.

Qualification Description

This qualification provides the skills and knowledge for an individual to manage, as an independent ICT specialist or as part of a team, the installation of a range of networks, including internetworking, security and e-business integration.

Licensing/Regulatory Information

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

Entry Requirements

Nil

Packaging Rules

Total number of units = 16

5 core units *plus*

11 elective units

The elective units consist of:

- up to 11 from the elective units listed below
- up to 3 from elsewhere in ICT Information and Communications Technology Training Package or any other Training Package or accredited course at Diploma or Advanced Diploma level.

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

Core units

ICTICT418 Contribute to copyright, ethics and privacy in an ICT environment

ICTICT517 Match ICT needs with the strategic direction of the organisation

ICTNWK529 Install and manage complex ICT networks

ICTSUS501 Implement server virtualisation for a sustainable ICT system

ICTTEN611 Produce an ICT network architecture design

Elective units

BSBSUS501 Develop workplace policy and procedures for sustainability

ICTICT501 Research and review hardware technology options for organisations

ICTICT509 Gather data to identify business requirements

ICTICT514 Identify and manage the implementation of current industry specific technologies

ICTICT603 Manage the use of appropriate development methodologies

ICTNWK502 Implement secure encryption technologies

ICTNWK503 Install and maintain valid authentication processes

ICTNWK504 Design and implement an integrated server solution

ICTNWK505 Design, build and test a network server

ICTNWK506 Configure, verify and troubleshoot WAN links and IP services in a medium enterprise network

ICTNWK507 Install, operate and troubleshoot medium enterprise routers

ICTNWK508 Install, operate and troubleshoot medium enterprise switches

ICTNWK509 Design and implement a security perimeter for ICT networks

ICTNWK510 Develop, implement and evaluate system and application security

ICTNWK511 Manage network security

ICTNWK513 Manage system security

ICTNWK524 Install and configure network access storage devices

ICTNWK525 Configure an enterprise virtual computing environment

ICTNWK527 Manage an enterprise virtual computing environment

ICTNWK531 Configure an internet gateway

ICTNWK533 Configure and manage advanced virtual computing environments

ICTNWK534 Monitor and troubleshoot virtual computing environments

ICTNWK535 Install an enterprise virtual computing environment

ICTNWK536 Plan, implement and test enterprise communication solutions

ICTNWK615 Design and configure desktop virtualisation

ICTOPN502 Perform acceptance and commissioning tests on optical network

ICTOPN503 Plan for an optical system upgrade and cut over

ICTOPN505 Test the performance of specialised optical devices

ICTOPN506 Analyse and integrate specialised optical devices in the network

ICTPMG501 Manage ICT projects

ICTSAD506 Produce a feasibility report

ICTSAS406 Implement and hand over system components
 ICTSAS501 Develop, implement and evaluate an incident response plan
 ICTSAS502 Establish and maintain client user liaison
 ICTSAS505 Review and update disaster recovery and contingency plans
 ICTSAS512 Review and manage delivery of maintenance services
 ICTSAS519 Perform systems test
 ICTSAS522 Manage the testing process
 ICTSUS601 Integrate sustainability in ICT planning and design projects
 ICTSUS602 Establish a business case for sustainability and competitive advantage in ICT projects
 ICTTEN422 Configure and troubleshoot advanced network switching
 ICTTEN512 Design and implement an enterprise voice over
 ICTTEN514 Install, configure and test a server
 ICTTEN515 Dimension and design a radio frequency identification system
 ICTTEN516 Produce technical solutions from business specifications
 ICTTEN517 Plan a wireless mesh network
 ICTTEN610 Design and configure an IP-MPLS network with virtual private network tunnelling

Qualification Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICT50418 Diploma of Information Technology Networking (Release 1)	ICT50415 Diploma of Information Technology Networking (Release 2)	Updated due to changes to core units of competency	Equivalent qualification

Links

Companion Volume Implementation Guides are available from VETNet -
<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>