ICT50418 Diploma of Information Technology Networking

Modification History

<table>
<thead>
<tr>
<th>Release</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Release 1</td>
<td>This version first released with ICT Information and Communications Technology Training Package Version 4.0.</td>
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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

<table>
<thead>
<tr>
<th>Code and title</th>
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<th>Comments</th>
<th>Equivalence status</th>
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<tbody>
<tr>
<td>ICT50418 Diploma of Information Technology Networking (Release 1)</td>
<td>ICT50415 Diploma of Information Technology Networking (Release 2)</td>
<td>Updated due to changes to core units of competency</td>
<td>Equivalent qualification</td>
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Links