

ICT40115 Certificate IV in Information Technology

Release: 2



ICT40115 Certificate IV in Information Technology

Modification History

Release	Comments
Release 2	This version released with ICT Information and Communications Technology Training Package version 2.0.
	Release 2 created to update unit codes.
Release 1	This version first released with ICT Information and Communications Technology Training Package version 1.0.

Qualification Description

This qualification provides the skills and knowledge for an individual to be competent in a wide range of general information and communications technology (ICT) technologies and to support small to medium enterprises (SMEs) that require broader rather than more specialised ICT support.

Persons working at this level apply a wide range of knowledge and skills in basic networking, ICT support, database development, programming and web development support; working safely and ethically in a sustainable work environment.

Licensing/Regulatory Information

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

Entry Requirements

Nil

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Packaging Rules

Total number of units = 20 5 core units plus 15 elective units

The elective units consist of:

• up to 15 from the specialist elective groups below, with a maximum of 5 units from any one group:

Group A Networking

Group B Programming

Group C IT support

Group D Web design and development

Group E Digital games

Group F Digital media technologies

Group G Project management

• up to 5 from elsewhere in ICT Information and Communications Technology Training Package or any other Training Package or accredited course at Certificate IV or Diploma level.

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

Core units

BSBWHS304 Participate effectively in WHS communication and consultation processes

BSBSUS401 Implement and monitor environmentally sustainable work practices

ICTICT202 Work and communicate effectively in an ICT environment

ICTICT401 Determine and confirm client business requirements

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

Elective units

Specialist elective units

Group A Networking

ICTICT423 Select cloud storage strategies

ICTNWK401 Install and manage a server

ICTNWK402 Install and configure virtual machines for sustainable ICT

ICTNWK403 Manage network and data integrity

ICTNWK404 Install, operate and troubleshoot a small enterprise branch network

ICTNWK405 Build a small wireless local area network

ICTNWK406 Install, configure and test network security

ICTNWK407 Install and configure client-server applications and services

ICTNWK408 Configure a desktop environment

ICTNWK409 Create scripts for networking

ICTNWK410 Install hardware to a network

ICTNWK411 Deploy software to networked computers

ICTNWK412 Create network documentation

ICTNWK414 Create a common gateway interface script

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ICTNWK416 Build security into virtual private networks

ICTNWK417 Build an enterprise wireless network

ICTNWK418 Implement backbone technologies in a local area network

ICTNWK419 Identify and use current virtualisation technologies

ICTSAS307 Install, configure and secure a small office or home office network

Group B Programming

ICTICT410 Conduct post-implementation ICT system reviews

ICTICT420 Develop client user interface

ICTPRG401 Maintain open-source code programs

ICTPRG402 Apply query language

ICTPRG403 Develop data-driven applications

ICTPRG404 Test applications

ICTPRG405 Automate processes

ICTPRG406 Apply introductory object-oriented language skills

ICTPRG407 Write script for software applications

ICTPRG409 Develop mobile applications

ICTPRG410 Build a user interface

ICTPRG412 Configure and maintain databases

ICTPRG413 Use a library or pre-existing components

ICTPRG414 Apply introductory programming skills in another language

ICTPRG415 Apply skills in object-oriented design

ICTPRG416 Manage a software component reuse library

ICTPRG417 Apply mathematical techniques for software development

ICTPRG418 Apply intermediate programming skills in another language

ICTPRG419 Analyse software requirements

ICTPRG425 Use structured query language

ICTPRG426 Prepare software development review

ICTPRG427 Use XML effectively

ICTPRG428 Use regular expressions in programming languages

Group C ICT support

ICTDBS403 Create basic databases

ICTDBS407 Monitor physical database implementation

ICTDBS408 Link an RFID system to a database

ICTDBS503 Create a data warehouse

ICTICT402 Determine project specifications and secure client agreement

ICTICT403 Apply software development methodologies

ICTICT404 Use online learning tools

ICTICT405 Develop detailed technical design

ICTICT406 Build a graphical user interface

ICTICT408 Create technical documentation

ICTICT411 Select and employ software and hardware testing tools

ICTICT412 Coordinate and maintain ICT work teams

ICTICT413 Relate to clients on a business level

ICTICT415 Provide one-to-one instruction

ICTICT416 Contribute to the development of strategic plans

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ICTICT417 Identify, evaluate and apply current industry specific technologies to meet industry standards

ICTSAD401 Develop and present feasibility reports

ICTSAS402 Implement configuration management strategies

ICTSAS403 Review site environmental factors prior to ICT system implementation

ICTSAS404 Acquire ICT system components

ICTSAS405 Identify and evaluate ICT industry vendor technologies

ICTSAS407 Conduct pre-installation audit for software installation

ICTSAS408 Complete data transition in data migration process

ICTSAS409 Manage risks involving ICT systems and technology

ICTSAS410 Identify and resolve client ICT problems

ICTSAS411 Assist with policy development for client support procedures

ICTSAS412 Action change requests

ICTSAS413 Manage resolution of system faults on a live system

ICTSAS414 Evaluate system status

ICTSAS415 Optimise ICT system performance

ICTSAS416 Implement maintenance procedures

ICTSAS417 Undertake ICT system capacity planning

ICTSAS418 Monitor and administer security of an ICT system

ICTSAS419 Support system software

ICTSAS420 Provide first-level remote help-desk support

ICTSAS421 Support users and troubleshoot desktop applications

ICTSAS424 Support different operating systems

Group D Web design and development

ICTICT407 Maintain website information standards

ICTWEB401 Design a website to meet technical requirements

ICTWEB402 Confirm accessibility of websites for people with special needs

ICTWEB403 Transfer content to a website using commercial packages

ICTWEB404 Maintain website performance

ICTWEB405 Monitor traffic and compile website traffic reports

ICTWEB406 Create website testing procedures

ICTWEB407 Conduct operational acceptance tests of websites

ICTWEB408 Ensure basic website security

ICTWEB409 Develop cascading style sheets

ICTWEB410 Apply web authoring tool to convert client data for websites

ICTWEB411 Produce basic client-side script for dynamic web pages

ICTWEB412 Produce interactive web animation

ICTWEB413 Optimise search engines

ICTWEB414 Design simple web page layouts

ICTWEB415 Produce server-side script for dynamic web pages

ICTWEB416 Customise content management system

ICTWEB417 Integrate social web technologies

ICTWEB418 Use development software and ICT tools to build a basic website

ICTWEB419 Develop guidelines for uploading information to a website

ICTWEB420 Write content for web pages

ICTWEB421 Ensure website content meets technical protocols and standards

ICTWEB422 Ensure website access and useability

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ICTWEB423 Ensure dynamic website security

ICTWEB424 Evaluate and select a web hosting service

ICTWEB425 Apply structured query language to extract and manipulate data

ICTWEB429 Create a markup language document to specification

Group E Digital games

ICTGAM401 Produce an interactive game

ICTGAM402 Identify and apply principles of games design and game playing

ICTGAM403 Create design documents for interactive games

ICTGAM405 Write story and content for digital games

ICTGAM406 Create visual design components for interactive games

ICTGAM407 Write scripts for interactive games

ICTGAM408 Use 3-D animation interface and toolsets

ICTGAM409 Create 3-D characters for interactive games

ICTGAM410 Develop 3-D components for interactive games

ICTGAM412 Design interactive media

ICTGAM413 Design and create 3-D digital models

ICTGAM414 Create audio for digital games

ICTGAM415 Develop simple environments for 3-D games

ICTGAM416 Prepare and complete image rendering processes

ICTGAM417 Apply digital effects to interactive products

ICTICT419 Work effectively in the digital media industry

Group F Digital media technologies

BSBCRT401 Articulate, present and debate ideas

CUAANM301 Create 2D digital animations

CUAANM302 Create 3D digital animations

CUAANM402 Create digital visual effects

CUADIG401 Author interactive media

CUAPPM407 Create storyboards

CUASOU202 Perform basic sound editing

CUASOU304 Prepare audio assets

ICTDMT401 Create visual design components for digital media

ICTDMT402 Produce interactive animation

ICTDMT403 Produce and edit digital images

Group G Project management

ICTPMG401 Support small scale ICT projects

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Qualification Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICT40115 Certificate IV in Information Technology (Release 2)	ICT40115 Certificate IV in Information Technology (Release 1)	Updated unit codes.	Equivalent qualification

Links

Companion volumes available from the IBSA website:

http://www.ibsa.org.au/companion_volumes -

http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=18

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