



Australian Government

ICT50718 Diploma of Software Development

Release 1

ICT50718 Diploma of Software Development

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 be competent in programming and software development.

A person with this qualification would create new software products to meet an initial project brief or customise existing software products to meet customer needs.

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

10 core units plus

6 elective units

The elective units consist of:

- up to 6 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
ICTPRG418 Apply intermediate programming skills in another language
ICTPRG502 Manage a project using software management tools
ICTPRG503 Debug and monitor applications
ICTPRG504 Deploy an application to a production environment
ICTPRG520 Validate an application design against specifications
ICTPRG523 Apply advanced programming skills in another language
ICTPRG527 Apply intermediate object-oriented language skills
ICTPRG529 Apply testing techniques for software development
ICTPRG532 Apply advanced object-oriented language skills

Elective units

ICTICT403 Apply software development methodologies
ICTICT503 Validate quality and completeness of system design specifications
ICTICT509 Gather data to identify business requirements
ICTICT514 Identify and manage the implementation of current industry specific technologies
ICTICT517 Match ICT needs with the strategic direction of the organisation
ICTNWK514 Model preferred system solutions
ICTPMG501 Manage ICT projects
ICTPRG505 Build advanced user interface
ICTPRG506 Design application architecture
ICTPRG507 Implement security for applications
ICTPRG508 Create mashups
ICTPRG509 Build using rapid application development
ICTPRG510 Maintain custom software
ICTPRG512 Prepare for the build phase of an ICT system
ICTPRG513 Coordinate the build phase of an ICT system
ICTPRG515 Review developed software
ICTPRG531 Prepare for application development using current methods
ICTPRG601 Develop advanced mobile multi-touch applications
ICTPRG604 Create cloud computing services
ICTSAD501 Model data objects
ICTSAD502 Model data processes
ICTSAD506 Produce a feasibility report
ICTSAS502 Establish and maintain client user liaison

Qualification Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
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Code and title current version	Code and title previous version	Comments	Equivalence status
ICT50718 Diploma of Software Development (Release 1)	ICT50715 Diploma of Software Development (Release 1)	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>