

Diploma of Information Technology (General)

ICA50105

Course Description

This qualification provides the skills and knowledge for an individual to be competent in a range of ICT fields at Diploma level. The qualification has a strong core ICT base sharing the same core competencies as several other ICT qualifications of the same level.

It is a broad and flexible qualification with multiple internal pathways. It should be noted however, where the combination of core and elective units selected matches another Diploma of Information Technology equivalent, the latter award must be issued in preference to this more general qualification. This is to ensure that there is a clear identification of the work-related area of specialisation that has been undertaken.

Course Duration

Depending on your choice of delivery method you may have up to 24 months to complete this course.

Delivery Methods

Fundamental changes to the Australian workforce in recent years have resulted in employers demanding increased flexibility in the skill sets of their employees. At the same time, more individuals are taking greater responsibility for the development and extension of their own skills and knowledge. Prime Learning endeavours to accommodate those needs with its flexible delivery and qualifications structure allowing enterprises and individuals to progressively build relevant industry skills and have these recognised.

The following delivery methods are available for this course:

- **Classroom** (Classes are set with calendar and also rolling intake)
- **Workplace** (Trainer delivers on site with client)
- **Distance Learning** (All workbooks sent to client)
- **Blended Learning** (Periodic Workshops and Distance Learning)
- **RPL** - Recognised Prior Learning

For further customisation, or more information, please contact one of our course advisors on **1800 22 99 33**.

Pre-requisites

There are prerequisites that contain the basic fundamentals of ICT knowledge and skills for all the qualifications at Certificate III in IT and above, which are the 9 core competencies required for the Certificate II in Information Technology (ICA20105). These competencies may be incorporated free of charge into the certificate of your choice.

BSBCMN106A Follow workplace safety procedures

ICAD2012B Design organisational documents using computing packages

ICAU1128B	Operate a personal computer
ICAU2005B	Operate computer hardware
ICAU2006B	Operate computing packages
ICAU2013B	Integrate commercial computing packages
ICAU2231B	Use computer operating system
ICAW2001B	Work effectively in an IT environment
ICAW2002B	Communicate in the workplace

A number of units within this qualification also have prerequisites. These are detailed below in *Course Units*.

Course Requirements

Throughout the program you will need to have access to a PC or laptop with the following requirements:

- Microsoft Windows (98, Me, 2000, 2003, XP or Vista)
- Microsoft Word 97 or later
- Adobe Acrobat Reader*
- Access to Internet and Email
- CD-Rom Drive

* Can be downloaded free of charge from www.adobe.com

Resources Included

All of the learning materials and text books required to complete this course will be provided.

Course Units

21 units – 6 common core unit plus 9 specialist stream core stream units plus 6 elective units; (3 units chosen from any 3 specialist core stream units - E-business and Management, Client Support, Communication and Documentation, Hardware and Operating Systems, Networks, Software, Multimedia and Websites, Database)

Achieve 3 Elective Units Chosen from the ICA50105 specialist core (above) or specialist elective streams (below) not already selected

Achieve 3 Elective Units Chosen from the Following Sources (Listed in Recommended Order)

- any of the above core or electives sources; and/or
- elsewhere in the ICA05 Information and Communications Technology Training Package (at Certificate IV [maximum 2 units], Diploma or Advanced Diploma); and/or
- any other Training Package (at Diploma or Advanced Diploma) based on documented industry or enterprise needs

Common Core Units

Code	Description	Pre-requisites
BSBPMG505A	Manage project quality	
ICAA5056B	Prepare disaster recovery and contingency plans	

ICAA5158B	Translate business needs into technical requirements	ICAA4233B Determine and apply appropriate development methodologies
ICAP5039B	Match IT needs with the strategic direction of the enterprise	ICAA4041C Determine and confirm client business expectations and needs
ICAS5202B	Ensure privacy for users	
PSPPM502B	Manage complex projects	

Specialist Core Stream Units – E-Business and Management

Code	Description	Pre-requisites
ICAA5054C	Validate quality and completeness of system design specifications	
ICAA5138B	Determine acceptable developers for projects	
ICAA5148B	Select new technology models for business	
ICAA5151B	Gather data to identify business requirements	ICAA4041C Determine and confirm client business expectations and needs ICAA4233B Determine and apply appropriate development methodologies
ICAI5088B	Evaluate and negotiate vendor offerings	
ICAI5152B	Implement risk management processes	
ICAS5111B	Review and manage delivery of maintenance services	

Specialist Core Stream Units – Client Support

Code	Description	Pre-requisites
BSBWOR502A	Ensure team effectiveness	
ICAA5143C	Implement process re-engineering strategies in an organisation	
ICAI5216B	Monitor and improve knowledge management system	
ICAP5036B	Determine appropriate IT strategies and solutions	ICAP4037B Contribute to the development of a strategy plan #
ICAT5083B	Develop and conduct client acceptance test	ICAW4027B Relate to clients on a business level

Specialist Core Stream Units – Communication and Documentation

(Note: There is no electives list for this stream)

Code	Description	Pre-requisites
ICAB5161B	Build a document using extensible mark-up language	
ICAD5092B	Update and document operational procedures	ICAD3218B Create user documentation ICAD4217B Create technical documentation

ICAD5210B	Analyse information and assign meta-tags	
ICAS5102B	Establish and maintain client user liaison	ICAW4027B Relate to clients on a business level
ICAS5103B	Establish and maintain client user liaison during support activity	
ICAS5105B	Coordinate change requests	ICAP4037B Contribute to the development of a strategy plan #

Specialist Core Stream Units – Hardware and Operating Systems

(Note: There is no electives list for this stream)

Code	Description	Pre-requisites
ICAA5150C	Evaluate vendor products and equipment	
ICAB5160C	Build and configure a server	ICAA5140C Design a server #
ICAI5087B	Acquire system components	
ICAS5104B	Determine maintenance strategy	ICAT3025B Run standard diagnostic tests

Specialist Core Stream Units – Networks

Code	Description	Pre-requisites
ICAA5145B	Identify best-fit topology for a wide area network	
ICAB5159C	Build a security shield for a network	ICAS5192B Configure an internet gateway #
ICAI5173B	Install and configure a single-segment local area network switch	ICAI3101B Install and manage network protocols ICAI2015B Install software applications
ICAI5176C	Install and configure router	ICAI3101B Install and manage network protocols

Specialist Core Stream Units – Software

Code	Description	Pre-requisites
ICAB5062B	Perform data conversion	
ICAB4229B	Apply intermediate programming skills in another language	ICAB4222B Apply introductory programming skills in another language
ICAB5228B	Maintain functionality of legacy code programs	ICAB4222B Apply introductory programming skills in another language #
ICAB5230B	Maintain custom software	ICAB4222B Apply introductory programming skills in another language #
ICAT4242B	Perform unit test for a class	
ICAT5079B	Perform integration test	

Specialist Core Stream Units – Multimedia and Websites

Code	Description	Pre-requisites
CUFANM01A	Develop and implement designs for animation	
CUFRAD01A	Originate and develop the concept	
CUFWRT07A	Write an interactive sequence for multimedia	
ICAA5141C	Design and develop dynamic websites to meet technical requirements	ICAA4142C Design a website to meet technical requirements #
ICAB5165B	Create dynamic web pages	
ICAB5177B	Build Java applets	
ICAB5180C	Integrate database with a website	
ICAS5203B	Evaluate and select a web hosting service	
ICAU5208B	Use site server tools for transaction management	

Specialist Core Stream – Database

Code	Description	Pre-requisites
ICAA5046B	Model preferred system solutions	
ICAA5049B	Develop high-level object-oriented class specifications	ICAA4233B Determine and apply appropriate development methodologies
ICAA5050B	Develop detailed component specifications from project	
ICAA5147B	Determine suitability of database functionality and scalability	ICAA4041C Determine and confirm client business expectations and needs

Specialist Elective Stream – E-Business and Management

Code	Description
BSBEBUS510A	Manage e-business outsourcing
BSBEBUS511A	Implement a knowledge management strategy for an e-business
BSBFLM514A	Manage people
BSBPMG508A	Manage project risk
BSBEBUS505A	Implement new technologies for business
BSBEBUS510A	Manage e-business outsourcing
ICAA5150C	Evaluate vendor products and equipment
ICAP5155B	Plan process re-engineering strategies for business
ICAA5143C	Implement process re-engineering strategies in an organisation

Specialist Elective Stream – Client Support

Code	Description
BSBEBUS510A	Manage e-business outsourcing
BSBMGT516A	Facilitate continuous improvement
ICAS4116B	Undertake capacity planning

Specialist Elective Stream – Networks

Code	Description	Pre-requisites
ICAA5045C	Produce network architecture design	
ICAS5123C	Manage network security	
ICAA5140C	Design a server	
ICAA5245A	Evaluate RFID systems	ICAA4041C Determine and
ICAA5246A	Design an RFID implementation	ICAA4041C Determine and
ICAB5162B	Install, configure and test a payment gateway	
ICAI5250A	Develop, implement and evaluate system and application	ICAA4041C Determine and
ICAI5252A	Develop, implement and evaluate an incident response plan	ICAP4037B Contribute to the
ICAI5253A	Implement, and evaluate systems for regulatory and standards	
ICTTC168A	Design and implement an enterprise VoIP and unified	

Specialist Elective Stream – Software

Code	Description
ICAA5048B	Develop configuration management protocols
ICAB5065B	Prepare for the build phase
ICAB5066B	Coordinate the build phase
ICAB5072B	Develop integration blueprint
ICAB5179B	Build decks using wireless mark-up language
ICAB5223B	Apply intermediate object-oriented language skills
ICAT5081B	Perform systems test

Specialist Elective Stream – Multimedia and Websites

Code	Description
ICAA5146B	Develop website information architecture
ICAS5199B	Manage business websites and servers
CUFANM403A	Create titles for screen production
ICPPP325B	Create graphics using a graphics application
ICPMM321B	Capture a digital image
ICPKN315B	Apply knowledge and requirements of the multimedia sector

Specialist Elective Stream – Database

Code	Description
ICAA5139B	Design a database
ICAA5153B	Model data objects
ICAA5154B	Model data processes
ICAB4170B	Build a database

Knowledge and Skills Gained

(This summary of employability skills that are typical of this qualification and should not be interpreted as definitive.)

- Analysing, evaluating and presenting information about computing systems and information technology in conjunction with stakeholders
- Negotiating the provision of goods and services with service and product suppliers
- Working with a project team to identify business critical functions and the security environment
- Working with key stakeholders to gather, analyse and report on information
- Solving a range of unpredictable problems, for example when validating system design specifications or preparing a disaster recovery plan
- Initiating alternative approaches to problem-solving
- Participating in the development of strategic initiatives
- Identifying problems, planning solutions and validating results
- Using project planning skills to take into account scope, time, cost, quality, communications, and risk analysis and management
- Using personal responsibility and autonomy in performing complex technical operations and organising others
- Transferring and applying theoretical concepts, technical information and creative skills in a range of situations
- Identifying technology needs, sourcing, purchasing, using and testing system components
- Understanding conflicts and integration capabilities between diverse pieces of equipment

Career Outcomes

This qualification is designed to be very flexible with a wide selection of unit choices and options. It is intended that the qualification provides those skills and knowledge required by an individual to operate effectively in high level ICT technical support roles within organisations.

It is not feasible to identify one specific vocational outcome for this qualification because of the 'general' nature of this qualification and the diverse array of unit choices and streams available. The judicious choice of stream and electives units would provide for more specialist vocational outcomes associated with the streams. Job titles listed for other ICA05 Diploma qualifications that in part match the above streams could provide some guidance.

Pathways

Individuals who successfully complete the Prime Learning Certificate Diploma Information Technology (General) may undertake further Information Technology learning opportunities, or a range of other Diploma qualifications.

For more details contact one of our course advisors on **1800 22 99 33**.

Assessment Information

Assessment is ongoing throughout the learning process to both gather data on attainment of competencies, and to provide learners with feedback on how they are progressing. For more details contact one of our course advisors on **1800 22 99 33**.

Enrolment Form

For further information contact one of our course advisors on **1800 22 99 33**, or visit our website for more details www.primelearning.com.au

Contact Information

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