

CRICOS Code: 01899K / Provider Code 6554

CANTERBURY BUSINESS COLLEGE

LEARNING & ASSESSMENT STRATEGY

**ICA50705 Diploma of Information Technology
(Software Development)**

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Learning and Assessment Strategy

Name of RTO	Canterbury Business College			
Training Package	ICA05 Information & Communication Technology Training Package			
Code and title of qualification	ICA50705 Diploma of Information Technology (Software Development) CRICOS Code – 070181K			
Units of competencies				
Cluster Name	Unit Code	Unit Name	Nominal Hours	Core / Elective
Analyse & Design - 2	ICAA5151B	Gather data to identify business requirements*	20	Specialist Electives
	ICAA5158B	Translate business needs into technical requirements*	40	Common Core
	ICAA5050B	Develop detailed components specifications from project specifications	40	Elective
	ICAA6052B	Design an IT security framework*	50	Elective
	ICAA5056B	Prepare disaster recovery and contingency plans	50	Common Core
Advanced Programming (Build)	ICAB5223B	Apply intermediate object-oriented language skills*	40	Common Core
	ICAB5226B	Apply advanced object-oriented language skills*	60	Common Core
	ICAB5227B	Apply advanced programming skills in another language*	60	Common Core
	ICAB5068B	Build using rapid application development	40	Specialist Electives
Testing - 2	ICAT5077B	Develop detailed test plan	50	Elective
	ICAT5079B	Perform integration test	50	Common Core
	ICAT5083B	Develop and conduct client acceptance test*	60	Elective
	ICAB5230B	Maintain custom software*	40	Specialist Electives
Support / Project Management - 2	ICAS5202B	Ensure privacy for users	40	Common Core
	ICAS5102B	Establish and maintain client user liaison	40	Specialist Electives
	BSBPM505A	Manage project quality	60	Common Core
	PSPPM502B	Manage complex projects	60	Common Core

Co-requisite units

*The following units within this qualification have pre-requisites.

ICAA5151B - Gather data to identify business requirements

Pre-requisite - ICAA4233B - Determine & apply appropriate development methodologies (Cert IV unit) & ICAA4041C - Determine & confirm client business expectations and needs (Cert IV unit)

ICAA5158B - Translate business needs into technical requirements

Pre-requisite - ICAA4233B - Determine and apply appropriate development methodologies (Cert IV unit)

ICAA6052B - Design an IT security framework

Pre-requisite - ICAA4041C - Determine & confirm client business expectations and needs (Cert IV unit)

ICAB5223B - Apply intermediate object oriented language skills

Pre-requisite - ICAB4219B Apply introductory object-oriented language skills (Cert IV unit)*

**Pre-requisite* - ICAB4225B Automate processes (Cert IV unit)

ICAB5226B - Apply advanced object oriented language skills

Pre-requisite - ICAB5223B Apply intermediate object oriented language skills*

**Pre-requisite* - ICAB4219B Apply introductory object oriented language skills (Cert IV unit) **

** *Pre-requisite* - ICAB4225B Automate processes (Cert IV unit)

ICAB5227B - Apply advanced programming skills in another language

Pre-requisite - ICAB4229B Apply intermediate programming skills in another language (Cert IV unit)*

Pre-requisite* - ICAB4222B Apply introductory programming skills in another language (Cert IV unit)

** *Pre-requisite* - ICAB4225B Automate processes (Cert IV unit)

ICAB5230B - Maintain custom software

Pre-requisite - ICAB4222B Apply introductory programming skills in another language (Cert IV unit)*

**Pre-requisite* - ICAB4225B Automate processes (Cert IV unit)

<p>Clients</p>	<p>CBC's clients for this qualification are dominantly international students coming from Eastern European nations, India, China, Thailand, Bangladesh, Nepal & Sri Lanka.</p> <p>Entry requirements for students:</p> <ul style="list-style-type: none"> • An overall IELTS band 5.5 or equivalent and above • 18 years and above with a High School Certificate (Year 12) • Students will / may have to meet specific pre-requisite entry criteria's depending on individual qualification requirements. <p>Qualification Pathways</p> <p>Pre-requisite units for Certificate IV & Diploma of IT as per ICA05 training package–</p> <ul style="list-style-type: none"> • BSBCM106A – Follow workplace safety procedures • ICAD2012B – Design organizational documents using computing packages • ICAU1128B – Operate a personal computer • ICAU2005B – Operate a 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 <p>Pathways INTO the qualification</p> <p>Preferred pathways for candidates considering this qualification include:</p> <ul style="list-style-type: none"> • Must either produce a “Statement of Attainment” for the 9 pre-requisite units as listed above prior to enrolment / commencement. • Overseas candidates must provide evidence of successful completion of a basic computing / IT course which meets the unit outcomes of the pre-requisites as listed above. • If candidate already hold a Certificate II, III or IV in IT, he/she will need to submit verified Certificates / Statement of Attainment for recognition purposes. Students with either a Certificate or Statement of Attainment for Certificate III / IV will be exempted from the pre-requisites units.
<p>Learning and assessment arrangements</p>	<p>Duration</p> <p>Students will have to meet the pre-requisite unit requirements prior to entering the Diploma qualification.</p> <p>The training program for Diploma of Information Technology (Software Development) is conducted over a 52-week period (includes term breaks). CBC Diploma of Information Technology program is divided into 4 terms.</p> <p>CBC students will attend class equivalent to 20 hours per week in full-time mode.</p>

Organisation – Training units combinations

The ICA50705 program contains 17 units (4 Core, 9 Common Core & 4 Specialist Core) and will be delivered at the organisation's training centre.

To meet the requirements of the Diploma qualification involves the completion of all 17 units.

Organisation's Delivery plan

All units within this qualification are combined into clusters (Refer to cluster breakdown). These clusters are designed to meet the co-requisites units within it. A logical sequence is maintained for all the clusters.

Where applicable unit assessments having similar elements / criteria's / outcomes will be combined with appropriate assessment tools (Refer to the assessment plan to review the assessment tools used in the qualification) to achieve holistic assessment requirements to complete the qualification.

The clusters are placed in a logical fashion to achieve critical aspects of assessments for progressive development of competency achieved from previous units / clusters. Units within clusters have multiple assessment tools to simulate / reflect real time workplace requirements.

The qualification combines face-to-face trainer led theory/practical classes involving small groups/ individual activities, in a simulated environment resembling the workplace setting as close as possible. All programs are in full-time mode and cannot be undertaken part-time or via distance education.

RPL

Students, who hold a Certificate II, III and/or Certificate IV in IT, will need to submit verified Certificate/Statement of Attainment (issue by a RTO) for recognition purposes. Students with either a Certificate or Statement of Attainment for Certificate II, III and/or Certificate IV in IT units will be exempted from common/elective units.

Cluster Name	Unit (s) of Competency
Analyse & Design - 2	ICAA5151B
	ICAA5158B
	ICAA5050B
	ICAA6052B
	ICAA5056B
Advanced Programming (Build)	ICAB5223B
	ICAB5226B
	ICAB5227B
	ICAB5068B
Testing - 2	ICAT5077B
	ICAT5079B
	ICAT5083B
	ICAB5230B
Support / Project Management - 2	ICAS5202B
	ICAS5102B
	BSBPM505A
	PSPPM502B

Delivery modes

Simulated workplace environment

CBC ensures that the training delivered is to the standards of a real workplace environment. To meet this requirement CBC has implemented a variety of assessment tools that will be implemented during the course of the qualification. These assessment tools assess various different elements of a real / actual workplace however in a simulated training environment.

CBC meets the need for a real-time workplace simulation environment by:

- A dedicated computer lab to reflect a real-time work environment for all practical training components of the course.
- The CBC trainers represent the role of a real client and portray the workplace demands while working on projects. This includes role play of difficult & diverse type customers.
- Students prepare time lines, schedule milestones, communicate, prepare documentation, conduct training in accordance with the client (trainer)
- Working as a team (group work/assignments), fulfilling responsibilities and expectations of the job and workplace.
- Assignments, which include multi-tasking, different roles within assignments, using workplace policies and templates.

An opportunity to attend industry professional development, network and interact with industry professionals by offering membership options to the Australian Computer Society

Emphasis will be made to reflect real work situations in order to develop skills identified in the “employability skills” for this qualification. Those skills may include:

Evidence-gathering techniques / Assessment tools

A. Practical Tools

- a. Demonstration
- b. Programming / Projects
- c. Diagrammatical Representation
- d. Design Algorithm
- e. Troubleshooting

B. Witten Tools

- a. Report Writing
- b. Case Scenario – Problem Solving
- c. Written Exam
- d. Research Documentation

C. Observation Tools

- a. Role Play
- b. Help Desk
- c. Presentation
- d. Discussion
- e. Oral Questioning

Combinations of these methods will be used for most situations (eg. observations and oral questioning)

Cluster	Unit of competency	A	B	C
Analyse & Design - 2	ICAA5151B		√	√
	ICAA5158B	√	√	
	ICAA5050B	√	√	
	ICAA6052B	√	√	√
	ICAA5056B	√	√	√

Advanced Programming (Build)	ICAB5223B	√	√	
	ICAB5226B	√	√	
	ICAB5227B	√	√	
	ICAB5068B	√	√	√
Testing - 2	ICAT5077B	√	√	
	ICAT5079B	√	√	
	ICAT5083B		√	√
	ICAB5230B	√	√	
Support / Project Management - 2	ICAS5202B		√	
	ICAS5102B		√	
	BSBPM505A	√	√	√
	PSPPM502B	√	√	√
Please contact Academic Course Coordinator (simarjeet@canterburybc.com.au) for more information on Evidence gathering techniques / Assessment tools.				
<p>Schedule</p> <p>The training program is conducted over 40-week period. Please contact Academic Course Coordinator (simarjeet@canterburybc.com.au) for a copy of timetable.</p> <p>Evidence-gathering techniques takes place throughout the whole process and units of competency are assessed individually and within the cluster organisation.</p>				
<p>Delivery and assessment staff</p> <p>All trainers/Assessors hold Certificate IV in Training and Assessment TAA40104, vocational qualifications at least up to the same level they are delivering and assessing and proven relevant industry experience.</p> <p>Staff Matrix is available for review on request.</p>				
<p>Assessment validation process</p> <p>Deputy Principal (DP) & Academic Course Coordinator (ACC) meet with representatives from industry / enterprises on an annual basis to check that the performance standards required in the program are consistent with industry practice.</p> <p>DP & ACC conduct moderation meetings every term, which is attended by assessors. Meetings confirm the evidence-gathering techniques and the required standards of performance and reviewing assessment tools and decisions.</p> <p>ACC along with the IT faculty has the responsibility for developing, managing and monitoring strategies that ensure consistency in assessment. Validation meetings are lead by DP / ACC with the participation of assessors involved in a particular unit.</p> <p>For each cluster / unit of competency there is a “bank of assessment exemplars and benchmarks” available for all trainers/assessors. These are samples of candidate work that are considered to be exemplary.</p> <p>There is also a continuous feedback process in place, which involves gathering information from candidates, employers and other users of the assessment process.</p>				

Industry Consultation

CBC has liaised with the following organization / individuals for its industry consultation for ICA05 Package. Please review the minutes of meeting. Minutes of meeting are available for review on request.

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Other requirements

All staff involved in the delivery and assessment of this qualification, have direct access to the current version of the ICA05 Information & Communication Technology Training Package, including the appropriate units of competency, assessment guidelines and qualification structure.

All staff involved in delivering the program, have access to trainer, assessor and candidate support materials relevant to their areas of delivery and assessment. There is a "Cluster Folder", which include specific documents such as: Learning Program, Sessions Plans, Student Guide, Assessment Plan, Evidence Gathering Matrix, Marking Guide and Assessment Tools.

Pathways

This course provides skills for basic to intermediate level of programming requirements. Upon completion of Diploma qualifications following are the opportunities available:

Career & Pathway opportunities:

- Computer Software & Hardware Salesperson / Marketer
- Computer Systems Engineer
- Database Officer
- Network Administrator
- Network Manager
- Software Developer / Programmer
- Systems Trainer
- Technical Officer
- Trainer
- Web designer / Software Engineer
- The course also provides a path (advanced standing) for those intending to further study into a Bachelor Degree