

Cert IV in Information Technology (Programming) ICA40505

Description

This qualification develops basic programming skills in languages used in commercial systems. A person with this qualification could work on the implementation of a project or as a programmer within a team of software developers. The qualification contains a strong base of ICT core units with the potential for inclusion of ICA05 and other training packages to suit particular needs.

Prerequisites

BSBCM106A	Follow workplace safety procedures	ICAU2006A	Operate computing packages
ICAD2012A	Design organisational documents using computing packages	ICAU2013A	Integrate commercial computing packages
ICAU1128A	Operate a personal computer	ICAU2231A	Use computer operating system
ICAU2005A	Operate computer hardware	ICAW2001A	Work effectively in an IT environment
		ICAW2002A	Communicate in the workplace

Requirements

Participants must successfully complete 21 units of competency including

- 17 core units; plus
- 4 elective units, 2 of which may be drawn from a nationally endorsed training package.



Duration

Two years full-time; four years part-time.

On-the-Job Training

Much of the training is delivered on-the-job through reading, interacting with colleagues and completing useful project work. You only need to attend off-the-job training if a competency cannot be acquired at the workplace.

Recognition of Current Competencies (RCC)

You may already have many of the skills required for this qualification. There is no need to be trained in things you can already do. NDA will assess current skills and give recognition for relevant competencies.

Units

17 Core Units	BSBCM304A ICAA4041A ICAA4058A ICAA4233A ICAB4075A ICAB4178A ICAB4219A ICAB4222A ICAB4225A ICAB4229A ICAB4232A ICAD4043A ICAD4217A ICAT4221A ICAT4242A ICAW4214A PSPPM402B	Contribute to personal skill development and learning Determine and confirm client business expectations and needs Apply skills in object-oriented design Determine and apply appropriate development methodologies Use a library of pre-existing components Build a graphical user interface Apply introductory object-oriented language skills Apply introductory programming skills in another language Automate processes Apply intermediate programming skills in another language Maintain open source code programs Develop and present a feasibility report Create technical documentation Locate equipment, system and software faults Perform unit test for a class Maintain ethical conduct Manage simple projects
4 Elective Units chosen from the following sources	<ul style="list-style-type: none">• Elsewhere in the ICA05 Information Technology Training Package (at Certificate III maximum 2 units), Certificate IV or Diploma); and/or• The BSB01 Business Services Training Package (at Certificate IV or Diploma); and/or• Any other training Package (up to a maximum 2 units at Certificate IV or Diploma) based on documented or enterprise needs	