

Information Technology
Lachlan IT Online

Certificate IV 19009 in IT -
Networking

Unit and
Assessment Guide
2010

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Introduction

The following information is intended for networking students enrolled in 19009 Certificate IV in IT - Networking, through Lachlan IT Online – Parkes Campus of TAFE.

Many of our course resources are internet based. Our website <http://www.lachlanitonline.edu.au> contains these resources. Resources related to our courses can be found through the courses link from the home page and then selecting the course link you are interested in. These resources include documents such as this guide, pod casts, and the toolbox learning resources.

This document is designed as a guide to assist you to locate resources for any subject within the course. Located on the website, there is an “Introduction to the toolbox” pod cast as well as other casts introducing a number of our courses. If you feel there is a need for additional resources, please do not hesitate to contact us.

The content of the 19009 Certificate IV in IT - Networking is broken up into sections called ‘Competency Units’ or simply ‘Units’. Each unit has a title that reflects the content that it covers. Each unit also has an assessment task that allows the student to demonstrate that they have mastered the skills covered in the unit.

There are four main groups of units in the 19009 Certificate IV in Networking. They are the:

- Foundation level units
- Common Core Cert IV level units
- Specialist Core Cert IV level units
- Elective units

Many who enrol with us already have a wide range of skills in the IT area. For those students, Recognition of Prior Learning (RPL) may be used in to credit them with any of the modules which are listed below. To find out more, download the RPL guides for this course at <http://www.lachlanitonline.edu.au/courses/19009/index.html> and discuss the process with your teacher.

Foundation Level Units

When first enrolling in this course, students should focus their efforts on a group of units called foundation level units. These provide a series of skills and experiences that provide a foundation for more advanced units which follow. Many students will have completed these in other courses. For students with are currently skilled in these areas, talk to your teacher about having your skills assessed.

The foundation units are listed below in Fig 1.1:

Module/Unit Code	Module/Unit Name	Nom Hrs
BSBCM106A	Follow workplace safety procedures	10

Module/Unit Code	Module/Unit Name	Nom Hrs
ICAD2012A	Design organisational documents using computing packages	35
ICAU1128A	Operate a personal computer	15
ICAU2005A	Operate computer hardware	25
ICAU2006A	Operate computing packages	40
ICAU2013A	Integrate commercial computing packages	25
ICAU2231A	Use computer operating system	20
ICAW2001A	Work effectively in an IT environment	25
ICAW2002A	Communicate in the workplace	25

Fig 1.1 Foundation level units in course 19009

Students should complete all of the foundation level units prior to attempting more advanced units. Study materials and assessment tasks for these units are contained in the 19001 Certificate II Toolbox. The link to these materials can be found at <http://www.lachlanitonline.edu.au/Toolboxes>.

Common Core Cert III level Units

The next group units to be attempted are Certificate III level and are common to most of the other IT Certificates of the same level.

These units are listed below in Fig 1.2:

Module/Unit Code	National Module Code	Module/Unit Name	Nom Hrs
ICAI3020A		Install and optimise operating system software	20
ICAI3101A		Install and manage network protocols	30
ICAS3024A *		Provide basic system administration	20
ICAS3032A *		Provide network systems administration	20
ICAS3120A *		Configure and administer a network operating system	40

Fig 1.2 Common Core Cert III level units in course 19009

Study materials and assessment tasks for these units are contained in the 19009 Certificate IV Toolbox. The link to these materials can be found at <http://www.lachlanitonline.edu.au/Toolboxes>.

To assist students in fast tracking a number of related modules, integrated practical projects have been written and are used as both the learning and assessment tool for these modules. Units marked with a * are included in the integrated projects which can be downloaded at <http://www.lachlanitonline.edu.au/courses/19003/index.html>.

Specialist Core Cert IV level Units

These units are Certificate IV level and are specialist Networking units. The link to these materials can be found at <http://www.lachlanitonline.edu.au/Toolboxes>.

To assist students in fast tracking a number of related modules, integrated practical projects have been written and are used as both the learning and assessment tool for these modules. Units marked with a * are included in the integrated projects which can be downloaded at <http://www.lachlanitonline.edu.au/courses/19003/index.html>.

Module/Unit Code	National Module Code	Module/Unit Name	Nom Hrs
BSBCM304A		Contribute to personal skill development and learning	30
ICAA4041A		Determine and confirm client business expectations and needs	30
ICAB4220A		Create scripts for networking	40
ICAB4225A		Automate processes	40
ICAD4043A		Develop and present a feasibility report	20
ICAD4217A		Create technical documentation	20
ICAI4029A		Install network hardware to a network	40
ICAI4030A *		Install software to networked computers	40
ICAI4097A *		Install and configure a network	50
ICAI4099A *		Build an intranet	50
ICAI4188A		Install and maintain a server	20
ICAS4124A *		Monitor and administer network security	20
ICAS4127A *		Support system software	50
ICAT4221A *		Locate equipment, system and software faults	20
ICAW4214A		Maintain ethical conduct	10
PSPPM402B		Manage simple projects	62

Fig 1.3 Specialist Core units in course 19009

Elective Units

These units, which may use a variety of resources, are listed below in Fig 1.4:

Module/Unit Code	National Module Code	Module/Unit Name	Nom Hrs
ICAA4233A		Determine and apply appropriate development methodologies	20
ICAA5045A		Produce network architecture design	30
ICAA5140A		Design a server	30
ICAA5144A		Determine best-fit topology for a local network	20
ICAA5145A		Identify best-fit topology for a wide area network	20
ICAA5158A		Translate business needs into technical requirements	40
ICAA5241A		Design an enterprise wireless local area network	40
ICAB4061A		Monitor physical database implementation	40
ICAB4135A		Create a simple mark-up language document to specification	20
ICAB4136A		Use SQL to create database structures and manipulate data	60
ICAB4169A		Use development software & IT tools to build a	20

Module/Unit Code	National Module Code	Module/Unit Name	Nom Hrs
		basic website	
ICAB4170A		Build a database	30
ICAB4235A		Build basic perimeter security into a network	40
ICAB4236A		Build security into a virtual private network	40
ICAB4239A		Build a small wireless local area network	40
ICAB4240A		Build an enterprise wireless network.	40
ICAB5160A		Build and configure a server	50
ICAI5085A		Review site in preparation for implementation	20
ICAI5176A		Install and configure router	20
ICAS3234A		Care for computer hardware	20
ICAS4106A		Action and complete change requests	60
ICAS4114A		Implement maintenance procedures	10
ICAS4116A		Undertake capacity planning	50
ICAS4119A		Monitor and administer system security	30
ICAS4125A		Monitor and administer a database	30
ICAS5102A		Establish and maintain client user liaison	20

Fig 1.4 Elective units in course 19009

These should be chosen in consultation with your teacher who will be aware of the study difficulty, resource requirements and time requirements for each of the available electives.

Summary

Graduates of 19009 Certificate IV in IT must demonstrate a high level of proficiency in their IT skills. The nature of such a high level course means that the paths different students follow to complete their studies may vary greatly depending upon their individual circumstances. These paths are negotiated with and supported by, your IT teacher who will accompany you your journey. If you ever have a question, just ask.

The staff at Lachlan IT Online looks forward to working with you on this journey.