

**NEW ZEALAND INSTITUTES OF TECHNOLOGY AND POLYTECHNIC
QUALIFICATIONS IN INFORMATION & COMMUNICATIONS TECHNOLOGY**

PRESCRIPTION NM500 LAN ADMINISTRATION

AIM OF MODULE:	Students will gain knowledge and skills enabling support of clients in a Local Area Network environment.
CREDITS:	7
STUDENT LEARNING HOURS:	70
CONTENT REVISED:	2010
PRESCRIPTION EXPIRY DATE:	November 2013

Level and Assessment Schedule

TOPICS	Highest Skill Level				Suggested Assessment Percentage
	R	C	A	P	
1. Local Area Networks (LANs)		*			35
2. Peer-To-Peer LANs			*		20
3. Server-Based LANs			*		45
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LEARNING OUTCOMES

The student will:

- C 1 Describe Local Area Network concepts.
- A 2 Install, configure and use a peer-to-peer network.
- A 3 Utilise the client facilities available on a server-based LAN, and be capable of basic trouble-shooting.

CONTENT

1 LOCAL AREA NETWORKS

- The basic concepts and features of a LAN will be described.
- The basic concepts of security and security threats will be described.
- Describe the role of a Network Manager and where that fits into a typical NZ IT department.
- Network Services (including Directory Services) will be described.
- An overview of troubleshooting and troubleshooting tools will be described.
- An overview of policy such as network use, data backup and security

(Note: The Network Policy and Network Manager role may be an overview of what is implemented within your own institution)

2 PEER-TO-PEER LANS

- The network software components will be installed and configured.
- File and printer sharing will be implemented.
- Problems typically encountered by a client will be solved.

3 SERVER-BASED LANS

- Basic Directory administration that will be encountered in a service environment such as managing users, groups and adding workstation to a server based LAN.
- Assign security to users/groups including user permissions and file system security (including UNC paths and mapping network drives).
- Print queues will be managed.
- Problems typically encountered in a server-based LAN will be solved.

READING/REFERENCE LIST:

- Discovering Computers 2010: Living in a Digital World, Complete (Shelly Cashman Series) by Gary B. Shelly, Misty E. Vermaat. ISBN 13: 978-0324786453 (Published by Course Technology; March 2009)