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

PRESCRIPTION: NM61n LAN ADMINISTRATION APPLIED

AIM OF MODULE:	Students will increase their knowledge and skills enabling them to perform the duties of an Administrator on a server-based LAN
CREDITS:	7
KNOWLEDGE ASSUMED FROM	NM500 Introduction to LAN Administration NM600 LAN Administration
STUDENT LEARNING HOURS:	70
CONTENT REVISED:	2010
PRESCRIPTION EXPIRY DATE:	November 2013

Level and Assessment Schedule

TOPICS	R	C	A	P	Suggested Assessment Percentage
1. LAN Installation			*		40
2. LAN Administration			*		50
3. Fault Detection & Correction				*	10
					100

(Highest Skill Level: R C A P)

LEARNING OUTCOMES

The student will:

A   1   Install and configure a server-based LAN.

A   2   Administer a server-based LAN.

A   3   Troubleshoot and correct typical problems.

CONTENT

1   LAN Installation

➢   The server-based LAN hardware (nodes) will be interconnected.

➢   The server harddisk will be prepared and the network operating system (NOS) will be installed and configured.

➢   The server will be configured to manage a print queue.

2   LAN Administration

➢   A multi-user application will be installed in an appropriate directory.

➢   Several user groups with different levels of security will be configured and users will be assigned to groups.

➢   The users' login scripts will be defined and written.

➢   Major command line and menu utilities, including those restricted to the administrator, will be identified and used.

➢   A new user menu will be created utilising a menu utility.

➢   Console utilities will be used.

➢   Printers, including one attached to a separate print server, will be added.

➢   The network facilities will be utilised; e.g. the user will run the multi-user application and produce hardcopy.

➢

3   Fault Detection and Correction

➢   Troubleshooting of typical problems encountered on a server-based LAN will be performed.

➢   LAN monitoring software will be used to analyse network performance.

NOTES TO TUTORS

➢ Use a product such as **Windows Server 2008™**

➢ While it is expected that the troubleshooting requirement of section 3 will be fulfilled during the completion of sections 1 & 2, introducing faults onto the network may be necessary.

➢ For LAN performance monitoring use a product such as LAN Analyser by Network Instruments

http://www.networkinstruments.com/products/observer/standard.html?_kk=lan%20monitoring&_kt=eb5f3193-d4df-45ba-a3de-db23f388908d&gclid=CNWX9cTj1aICFSH5iAodlhSXxQ (Accessed July 2010)