

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

**PRESCRIPTION: FP700 FIREWALL AND PROXY SERVER**

AIM OF MODULE:	To provide students with the knowledge and skills required to install, implement and administer a firewall and a proxy server.
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. Firewall Implementation			*		60
2. Proxy Server Implementation				*	40
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## LEARNING OUTCOMES

The student will:

- A 1. Install, implement and administer a firewall server
- P 2. Install, implement, administer and troubleshoot a proxy server

## CONTENT

### 1. Installation, Implementation and Administration of a Firewall

- Install a firewall, with an emphasis on the issues related to both new installations and upgrades.
- Secure access to and from the Internet for clients through the use of filters, policies and rules.
- Configure virtual private networks on the firewall.
- Provide services such as web and mail on the Internet through the firewall.
- Monitor and report security vulnerabilities and network intrusions.

### 2. Installation, Implementation and Administration of a Proxy Server

- Install a proxy server, with an emphasis on the issues related to both new installations and upgrades.
- Implement forward and reverse caching for optimum performance.
- Configure load sharing and fault tolerance in a group of proxy servers.
- Troubleshoot a proxy server with the use of available tools.

## NOTES TO TUTORS

- Tutors may use any appropriate firewall and proxy server from a vendor such as Microsoft, or Linux.
- The course should provide students with the opportunity to administer and implement a firewall and proxy server.