

Certified Traffic Control Engineer (MTCTCE)

Training outline

Duration:	2 days
Outcomes:	By the end of this training session, the student will be able to manage quality of service for the network by using RouterOS queues, firewall and other features
Target audience:	Network engineers and technicians wanting to control the traffic flow in the network
Course prerequisites:	MTCNA certificate

Title	Objective
Module 1 Packet Flow Diagram	 Why this diagram is necessary? Full overview of all things covered by the diagram Simple examples how packet travels through the diagram
	 Routing Bridging
	 Connection to router More complex examples of diagram usage Module 1 laboratory
Module 2 Firewall Filter, NAT, Mangle	 Connection tracking Filter Chains (default/custom) All rule "actions" covered Most common rule "conditions" covered NAT Chains (default/custom) All rule "actions" covered MAT Chains (default/custom) All rule "actions" covered Most common rule "conditions" covered
	 NAT helpers Mangle Chains (default/custom) All rule "actions" covered Most common rule "conditions" covered Some complicated rule "conditions" covered ("advanced", "extra" tab) UPnP Module 2 laboratory

	Simple queues
	Queue size
	• PCQ
	• RED
	• SFQ
	• FIFO
	Queue types
	• Burst
	HTB priority
	HTB Dual Limitation
	HTB structure
	HTB implementation (queue tree)
Ouality of Service	HTB general information
Modulo 2	• HTB

Module 4 DNS Client, Cache	 Basic configuration Static DNS Entry Module 4 laboratory
Module 5	DHCP communication analysis

DHCP Client	DHCP client identification/configuration
Relay, Server	DHCP server configuration:
	DHCP networks
	DHCP options (build-in and custom)
	• IP Pool
	Advanced DHCP
	DHCP relay configuration
	Module 5 laboratory
	Basic configuration
Module 6	
Web Proxy	Proxy rule lists
	Access list
	Direct Access list
	Cache list
	Regular expression
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