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ACADEMY

MTCTCE outline

CERTIFIED TRAFFIC CONTROL ENGINEER

δ Μικγοτικ ΜΤCTCE

Duration: 2 days

Outcomes: MTCTCE is one of the six, second level courses on the MikroTik certification path. This course offers deeper knowledge in management, analysis, control and traffic prioritisation methodologies and network services. The main headlines of this course are Firewall Filter / NAT / Mangle and Quality of Service (QoS). All Participants who pass the exam will receive an official MikroTik MTCTCE certification.

Target Audience:Network Engineers and technicians wanting to deploy and support
MikroTik wireless networks.

Course prerequisites: A good working knowledge of TCP/IP Basics is required. You must be MikroTik MTCNA Certified (current or expired certificate is fine) to sit this course.

Title	Objective
Module 1	Why this diagram is necessary?
Packet Flow Diagram	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
	Connection tracking
Module 2	Filter
Firewall Filter, NAT, Mangle	Chains (default/custom)
n, n, mangie	All rule "actions" covered
	 Most common rule "conditions" covered
	• NAT
	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

	• HTB
Module 3 Quality of Service	
	HTB general information
	HTB implementation (queue tree)
	HTB structure
	HTB Dual Limitation
	HTB priority
	• Burst
	Queue types
	• FIFO
	• SFQ
	• RED
	• PCQ
	Queue size
	Simple queues
	Simple queue and queue tree interaction
	Module 3 laboratory
Module 4	Basic configuration
DNS Client, Cache	Static DNS Entry
	Module 4 laboratory

	· Module 4 laboratory
Module 5 DHCP Client,	DHCP communication analysis
	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
Module 6	Basic configuration
Web Proxy	Proxy rule lists
	Access list

Direct Access list	
Cache list	
Regular expression	
Module 6 laboratory	