

MTCNA	
Course Name:	MTCNA
Course Duration:	40 hours
Requirements:	Network+
Who should take this Course:	Network engineers

Syllabus Course

Outline:

- MikroTik RouterOS Introduction
 - First time accessing the router + LAB
 - Setup Internet connection via router + LAB
 - TCP/IP Basics
 - Upgrade RouterOS + LAB;
 - Manage RouterOS logins + LAB
 - Manage RouterOS services
 - Backup and export/import configuration + LAB
 - RouterOS license
 - NTP client configuration
 - Netinstall + LAB
- MikroTik RouterOS Firewall
 - Firewall principles
 - Firewall Filter in action
 - RouterOS connection tracking
 - Basic Address-List + LAB
 - Source NAT
 - Destination NAT
 - NAT limitations







- MikroTik RouterOS QoS
 - Simple Queue + LAB
 - Traffic Prioritization + LAB
 - Simple Mangle and Tree Queue + LAB
 - PCQ setup + LAB
 - Bandwidth Test + LAB
 - Monitoring
- Mikrotik RouterOS Network Management
 - ARP + LAB
 - DHCP server and client + LAB
 - HotSpot + LAB
 - Proxy + LAB
 - Store
 - RouterOS tools
- MikroTik RouterOS Wireless
 - 802.11a/b/g/n Concepts
 - Setup simple wireless link + LABMAC-address filtering + LAB
 - Wireless Security and Encryption + LAB
 - 802.11n specific settings + LAB
 - MikroTik wireless protocols + LAB
 - Monitoring Tools
- MikroTik RouterOS Bridging
 - Bridging concepts + LAB
 - Bridge wireless networks + LAB
 - Bridge Wieless and remote networks + LAB
- MikroTik RouterOS Routing
 - Routing overview
 - Static routing
 - OSPF + LAB
- MikroTik RouterOS Tunnels
 - Secure local network
 - PPP settings
 - IP pool
 - Secure remote networks communication + LAB