Module 1 Introduction	• Attacks, mechanisms and services • The most common threats • RouterOS security deployment • **Module 1 laboratory**
Module 2 Firewall	• Packet flow, firewall chains • Stateful firewall • RAW table • SYN flood mitigation using RAW table • RouterOS default configuration • Best practices for management access • Detecting an attack to critical infrastructure services • Bridge filter • Advanced options in firewall filter • ICMP filtering • **Module 2 laboratory**
Module 3 OSI Layer Attacks	• MNDP attacks and prevention • DHCP: rogue servers, starvation attacks and prevention • TCP SYN attacks and prevention • UDP attacks and prevention • ICMP Smurf attacks and prevention • FTP, telnet and SSH brute-force attacks and prevention • Port scan detection and prevention • **Module 3 laboratory**

DAY 1

WIRAC.NET INTERNET SOLUTIONS INTERCOM MIKROTIK | Training Course

MTCSE

MikroTik Certified Security Engineer

Module 4
Cryptography
	• Introduction to cryptography and terminology
	• Encryption methods
	• Algorithms - symmetric, asymmetric
	• Public key infrastructure (PKI)
	• Certificates
	  • Self-signed certificates
	  • Free of charge valid certificates
	  • Using the certificates in RouterOS
	• **Module 4 laboratory**

Module 5 Securing the Router	• Port knocking • Secure connections (HTTPS, SSH, WinBox) • Default ports for the services • Tunneling through SSH • **Module 5 laboratory**
Module 6 Secure Tunnels	• Introduction to IPsec • L2TP + IPsec • SSTP with certificates • **Module 6 laboratory**

DAY 2