MTCWE

Course Name:	MTCWE
Course Duration:	16 hours
Requirements:	MTCNA
Who should take this Course:	Network engineers

Syllabus Course

Outline:
- Wireless Installations
  - Wireless routers
  - RouterBoard Hardware
  - Wireless cards
  - Antenna types
- Wireless Standard
  - 802.11 a/b/g/n
  - Bands and channel width
  - Frequencies
- Wireless Tools
  - Wireless Tools + LAB
  - Scan
  - Frequency usage
  - Spectral Scan/History
  - Snooper
  - Align
  - Sniffer
- Wireless Troubleshooting
  - Troubleshooting wireless clients + LAB
  - Registration table analysis
  - Ack-Timeout/Distance

- CCQ
- TX/RX Signal Strength
- Frames and HW-frames
- Data-rates
- Wireless Advanced Settings
  - Advanced Wireless Tab settings + LAB
  - WMM
  - Country regulation settings
  - TX-power + LAB
  - Virtual-AP
- 802.11n
  - 802.11n wireless protocol + LAB
  - Features
  - Data Rates
  - Channel bonding
  - Frame Aggregation
  - TX-power for N cards
  - Chain settings
  - Wireless link debugging
- Wireless Security
  - Wireless Security Measures + LAB
  - Access Management
  - Access-List/Connect-List
  - RADIUS
  - Authentication
  - Encryption
  - EAP
  - Management Frame Protection
- WDS and MESH
  - Wireless WDS protocol + LAB
  - Dynamic/Static WDS
- Wireless Bridging
- Wireless Transparent Bridge + LAB
- Nstreme Protocol
  - MikroTik Wireless Nstreme Protocol + LAB
  - Features
  - Configuration options
  - Nstreme Dual
  - Troubleshooting
- Nv2 Protocol
  - MikroTik Wireless Nv2 Protocol + LAB
  - Features
  - Configuration options
  - Troubleshooting