Course Name: MTCWE

Course Time: 16 Hrs.

**Course Prerequisites: MTCNA** 

#### **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

unication

- Country regulation settings
- TX-power + LAB
- Virtual-AP

# 802.11n

- n 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

# NOORAN telecommunication