

Course prerequisites – MTCNA certificate

| Title | Objective |
|-----------------------------------|--|
| Wireless Installations | <ul style="list-style-type: none"> ○ Wireless routers <ul style="list-style-type: none"> ○ RouterBoard Hardware ○ Wireless cards ○ Antenna types |
| Wireless Standard | <ul style="list-style-type: none"> ○ 802.11 a/b/g/n ○ Bands and channel width ○ Frequencies |
| Wireless Tools | <ul style="list-style-type: none"> ○ Wireless Tools + LAB <ul style="list-style-type: none"> ○ Scan ○ Frequency usage ○ Spectral Scan/History ○ Snooper ○ Align ○ Sniffer |
| Wireless Troubleshooting | <ul style="list-style-type: none"> ○ Troubleshooting wireless clients + LAB <ul style="list-style-type: none"> ○ Registration table analysis ○ Ack-Timeout/Distance ○ CCQ ○ TX/RX Signal Strength ○ Frames and HW-frames ○ Data-rates |
| Wireless Advanced Settings | <ul style="list-style-type: none"> ○ Advanced Wireless Tab settings + LAB <ul style="list-style-type: none"> ○ HW-retries ○ HW-protection ○ Adaptive-noise-immunity ○ WMM ○ Country regulation settings ○ TX-power + LAB ○ Virtual-AP |
| 802.11n | <ul style="list-style-type: none"> ○ 802.11n wireless protocol + LAB <ul style="list-style-type: none"> ○ Features ○ Data Rates ○ Channel bonding ○ Frame Aggregation ○ TX-power for N cards ○ Chain settings ○ Wireless link debugging |
| Wireless Security | <ul style="list-style-type: none"> ○ Wireless Security Measures + LAB <ul style="list-style-type: none"> ○ Access Management ○ Access-List/Connect-List ○ RADIUS ○ Authentication |

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| | <ul style="list-style-type: none"> ○ Encryption ○ EAP ○ Management Frame Protection |
| WDS and MESH | <ul style="list-style-type: none"> ○ Wireless WDS protocol + LAB <ul style="list-style-type: none"> ○ Dynamic/Static WDS ○ RSTP Bridge ○ Wireless MESH + LAB <ul style="list-style-type: none"> ○ HWMP+ Mesh |
| Wireless Bridging | <ul style="list-style-type: none"> ○ Wireless Transparent Bridge + LAB <ul style="list-style-type: none"> ○ WDS bridging ○ AP/Station-WDS ○ Pseudobridge ○ MPLS/VPLS tunnel |
| Nstreme Protocol | <ul style="list-style-type: none"> ○ MikroTik Wireless Nstreme Protocol + LAB <ul style="list-style-type: none"> ○ Features ○ Configuration options ○ Nstreme Dual ○ Troubleshooting |
| Nv2 Protocol | <ul style="list-style-type: none"> ○ MikroTik Wireless Nv2 Protocol + LAB <ul style="list-style-type: none"> ○ Features ○ Configuration options ○ Troubleshooting |