

MTCRE (MikroTik Certified Routing Engineer)

Course Description:

MTCRE is a course to understand Mikrotik RouterOS Routing features and Routing concepts deeply. By the end of this training session, the student will be able to plan, implement and debug routed Mikrotik RouterOS network configurations.

Modes of Trainings Available:

Online Training
Class Room Training
Regular Classes Available
Weekend Classes Available

Course Outline

Static Routing:

ECMP
How to force gateway over specific interface
Gateway reachability check and route distance
Routing mark and route policy
Recursive next-hop and scope/target-scope usage

What is VPN?

Different types of VPN
Site to site connectivity with tunnels
IPsec, EoIP, PPTP, SSTP, L2TP, PPPoE
VLAN and its usage
QinQ implementation
VLAN and managed switch
VLAN and switch chip configuration on RouterBOARD



What is OSPF?

- How OSPF protocol works
- Hello protocol
- Database distribution and LSA types explained
- OSPF network structure
- Areas
- Router types
- OSPF neighbors and neighbor states (DR and BDR election)
- External Route Distribution methods (type1, type2)
- Interface cost and interface types (broadcast, NBMA, etc.)
- SPT calculation algorithm
- OSPF and multicast (problems with NBMA)
- Stub, NSSA and area ranges (route aggregation)
- Virtual links, usage and limitations
- OSPF routing filters and limitations

