

MTCRE training outline

Course prerequisites – MTCNA certificate

Title	Objective
Static Routing	<ul style="list-style-type: none">· More specific routes· ECMP + LAB· How to force gateway over specific interface· Gateway reachability check and route distance + LAB· Routing mark and route policy + LAB· Recursive next-hop and scope/target-scope usage + LAB

Title	Objective
Point to point addressing	<ul style="list-style-type: none">· PtP address configuration + LAB

Title	Objective
VPN	<ul style="list-style-type: none">· What is VPN?· Different types of VPN· Site to site connectivity with tunnels (IPsec, EoIP, PPTP, SSTP, L2TP) + LAB· Vlan and it's usage· QinQ implementation + LAB· Vlan and managed switch· Vlan and switch chip configuration on Rbs + LAB

Title	Objective
OSPF	<ul style="list-style-type: none">· 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) + LAB· External Route Distribution methods (type1, type2) + LAB· Interface cost and interface types (broadcast, NBMA, etc.) + LAB· STP tree calculation algorithm· OSPF and multicast (problems with NBMA)· Stub, NSSA and area ranges (route aggregation) + LAB· Virtual links, usage and limitations + LAB· OSPF routing filters and limitations + LAB

Title	Objective
MME	<ul style="list-style-type: none">· Quick introduction of MME as an alternative to OSPF over wireless network.