

Course prerequisites – MTCNA certificate

| Title | Objective |
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| 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 |
| Point to point addressing | <ul style="list-style-type: none"> • PtP address configuration + LAB |
| VPN | <ul style="list-style-type: none"> • What is VPN? • Different types of VPN • Site to site connectivity with tunnels (IPIP, 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 |
| 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 |
| MME | <ul style="list-style-type: none"> • Quick introduction of MME as an alternative to OSPF over wireless network. |