

## Course prerequisites – MTCNA certificate

Title	Objective
<b>Static Routing</b>	<ul style="list-style-type: none"> <li>• More specific routes</li> <li>• ECMP + LAB</li> <li>• How to force gateway over specific interface</li> <li>• Gateway reachability check and route distance + LAB</li> <li>• Routing mark and route policy + LAB</li> <li>• Recursive next-hop and scope/target-scope usage + LAB</li> </ul>
<b>Point to point addressing</b>	<ul style="list-style-type: none"> <li>• PtP address configuration + LAB</li> </ul>
<b>VPN</b>	<ul style="list-style-type: none"> <li>• What is VPN?</li> <li>• Different types of VPN</li> <li>• Site to site connectivity with tunnels (IPIP, EoIP, PPTP, SSTP, L2TP, PPPoE) + LAB</li> <li>• Vlan and it's usage</li> <li>• QinQ implementation + LAB</li> <li>• Vlan and managed switch</li> <li>• Vlan and switch chip configuration on Rbs + LAB</li> </ul>
<b>OSPF</b>	<ul style="list-style-type: none"> <li>• What is OSPF?</li> <li>• How OSPF protocol works (Hello protocol, Database distribution and LSA types explained)</li> <li>• OSPF network structure (Areas, Router types)</li> <li>• OSPF neighbors and neighbor states (DR and BDR election) + LAB</li> <li>• External Route Distribution methods (type1, type2) + LAB</li> <li>• Interface cost and interface types (broadcast, NBMA, etc.) + LAB</li> <li>• SPT calculation algorithm</li> <li>• OSPF and multicast (problems with NBMA)</li> <li>• Stub, NSSA and area ranges (route aggregation) + LAB</li> <li>• Virtual links, usage and limitations + LAB</li> <li>• OSPF routing filters and limitations + LAB</li> </ul>