Course prerequisites – MTCNA and MTCRE certificates

Title	Objective
BGP	 What is Autonomous System What is BGP? Path Vector algorithm BGP Transport and packet types iBGP and eBGP + LAB Stub network scenarios and private AS removal + LAB Non-stub scenarios + LAB iBGP and eBGP multihop and loopback usage + LAB Route distribution and routing filters +LAB BGP best path selection algorithm BGP prefix attributes and their usage + LAB BGP route reflectors and confederations + LAB
Multicast	 What is multicast? Multicast addressing L2 and L3 Group management (IGMP) Multicast routing (PIM-SM) + LAB IGMP proxy and IGMP snooping + LAB
MPLS	 What is MPLS (basics) Label Distribution (LDP) + LAB What is Penultimate-hop-popping MPLS traceroute differences LDP based VPLS tunnels + LAB What is Bridge Split Horizon + LAB BGP based VPLS + LAB VRF and route leaking + LAB L3VPN (BGP based Layer3 tunnels) + LAB OSPF as CE-PE protocol
Traffic Engineering	 What is traffic engineering and how it works RSVP, Static path, dynamic path (CSPF) + LAB Bandwidth allocation and bandwidth limitation differences and settings + LAB