

MTCINE

Course Name:	MTCINE
Course Duration:	24 hours
Requirements:	MTCNA and MTCRE Certificates
Who should take this Course:	Network engineers

Syllabus Course

Outline:

- 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
- MPLS
 - What is MPLS (basics)
 - Static Label Mapping + LAB
 - Label Distribution (LDP) + LAB
 - What is Penultimate-hop-popping
 - MPLS traceroute differences
 - LDP based VPLS tunnels + LAB

- What is Bridge Split Horizon + LAB
- VPLS Control Word (CW) usage
- L2MTU importance and MPLS fragmentation
- 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