Implementing Cisco MPLS (CPLL-MPLS)

Duration: 180 Days

The Implementing Cisco Multiprotocol Label Switching (MPLS) course teaches you the high-performance method for forwarding packets through a network. MPLS enables routers at the edge of a network to apply simple labels to packets. This practice allows the edge devices to switch packets according to labels, with minimal lookup overhead. MPLS integrates the performance and traffic-management capabilities of data link Layer 2 with the scalability and flexibility of network Layer 3 routing. When used in conjunction with other standard technologies, MPLS gives the ability to support value-added features.

Skills You'll Learn:

- Describe the features of MPLS
- Describe how MPLS labels are assigned and distributed
- Configure and troubleshoot Frame mode MPLS on Cisco IOS platforms
- Describe the MPLS peer to peer architecture and explain routing and packet forwarding model in this architecture

Learning Path Objectives:

Upon completion of the course, students will have the knowledge and skills to:

- Describe the features of MPLS
- Describe how MPLS labels are assigned and distributed
- Identify the Cisco IOS tasks and command syntax necessary to implement MPLS on frame-mode Cisco IOS platforms
- Describe the MPLS peer-to-peer architecture and explain the routing and packet forwarding model in this architecture
- Identify the Cisco IOS command syntax required to successfully configure, monitor, and troubleshoot VPN operations
- Identify how the MPLS VPN model can be used to implement managed services and internet access
- Describe the various internet access implementations that are available and the benefits and drawbacks of each model
- Provide an overview of MPLS Traffic Engineering