

Implementing Cisco MPLS (MPLS) 3.0

Duration 5 Days

COURSE CONTENT

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 allows service providers the ability to support value-added features that are critical for their networks. The focus of this course is on MPLS technology issues as those issues apply to service providers and on how to configure new features and functions in an existing routed environment.

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

COURSE OUTLINE

- **Module 1:** MPLS Features
- **Module 2:** Label Assignment and Distribution
- **Module 3:** Frame-Mode MPLS Implementation on Cisco IOS Platforms
- **Module 4:** MPLS Virtual Private Network Technology
- **Module 5:** MPLS VPN Implementation
- **Module 6:** Complex MPLS VPNs
- **Module 7:** Internet Access and MPLS VPNs
- **Module 8:** MPLS Traffic Engineering Overview

WHO SHOULD ATTEND

- Channel Partner / Reseller, Customer, Employee

PREREQUISITES

- Cisco Certified Network Associate (CCNA) certification or equivalent level of working knowledge and experience
- Completion of CCNA Basics and ICND courseware is recommended training for CCNA
- Equivalent knowledge and skill that can be acquired by attending Cisco's training courses Building Scalable Cisco Internetworks (BSCI) and Configuring BGP on Cisco Routers (BGP)
- Practical experience with deploying and operating networks based on Cisco network devices and Cisco IOS is strongly recommended
- The QoS course is highly recommended because QoS knowledge is assumed in several sections of the course