

Course content |

Multiprotocol Label Switching (MPLS) v2.3 is a 5-day ILT course. It replaces MPLS v2.2 - It includes minor error corrections and addition of more current technical data. Service providers (and enterprises acting as service providers) are faced with many challenges in terms of customer demand, including an ongoing need for value-added services. Conventional IP packet forwarding has several limitations, and more and more service providers realize that something else is needed. Not only must service providers be concerned with protecting their existing infrastructure, but they must also find ways to generate new services that are not currently supportable using existing technologies.

Course objectives |

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.

Who should attend? |

- Channel Partner / Reseller
- Customer
- Employee

Pre-requisite |

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.

Course details |

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

Course duration |

5 days

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