

MPLS

Implementing Cisco MPLS

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 Contents

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

E-Book You will receive the original course documentation from Cisco in English language as a Cisco E-Book. In the Cisco Digital Learning Version, the content of the courseware is integrated into the learning interface instead.

Target Group

Der Kurs richtet sich an Netzwerk-Administratoren, -Manager, -Designer und System-Ingenieure, die sich mit der Implementierung von MPLS und MPLS-TE beschäftigen. Die Teilnahme wird als Vorbereitung auf das MPLS-Examen empfohlen.

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

Processing time

approx. 30 hours

Status 09/15/2022

This Course in the Web



You can find the up-to-date information and options for ordering under the following link:

www.expertech-training.com/go/MPLC

Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in a non-committal manner. This can also be done by phone under +49 6074/4868-0.

Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

Cisco Digital Learning

We are also offering this course as a Cisco Digital Learning module. These multi-modal training events include HD videos with searchable text, labs, exercises, and comprehensive course documentation.

Cisco Digital Learning	Prices, excl. of V.A.T.
12 Monate Freischaltung	€ 750

Training	Prices, excl. of V.A.T.
Classes in Germany	5 Days € 2,995
Online Training	5 Days € 2,995
Date/course venue	Course language German
12/12-16/12/22 Frankfurt	12/12-16/12/22 Online



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ExperTech GmbH

Waldstraße 94 • 63128 Dietzenbach • Phone: +49 6074 4868-0 • Fax: +49 6074 4868-109
info@experteach.de • www.experteach-training.com

