

## MPLS

# Implementing Cisco MPLS

40 horas

Profissional

Cisco

Cisco Continuing Education Credits

**40 CE Credits**

## INTRODUÇÃO

The Implementing Cisco MPLS training teaches you the high-performance method for forwarding packets through a network, enabling routers at the edge to apply simple labels to packets and switch them with minimal lookup overhead.

## OBJETIVO DO CURSO

Describe the features of MPLS

Describe how MPLS labels are assigned and distributed

Identify Cisco IOS tasks to implement MPLS on frame-mode platforms

Describe the MPLS peer-to-peer architecture and packet forwarding model

Identify Cisco IOS commands to configure, monitor, and troubleshoot VPN operations

Identify how the MPLS VPN model can be used to implement managed services and internet access

Describe various internet access implementations in MPLS environments

Provide an overview of MPLS Traffic Engineering

## PÚBLICO-ALVO

Network administrators, Network engineers, Network managers, Systems engineers

## PRÉ-REQUISITOS

Recommended: intermediate to advanced knowledge of Cisco IOS Software, EIGRP/OSPF/IS-IS/BGP configuration and troubleshooting.

## Course Outline

- MPLS Features
- Label Assignment and Distribution
- Frame-Mode MPLS Implementation on Cisco IOS Platforms
- MPLS Virtual Private Network Technology
- MPLS VPN Implementation
- Complex MPLS VPNs
- Internet Access and MPLS VPNs
- MPLS Traffic Engineering Overview

## Lab Outline

- Verifying CEF Switching
- Enabling MPLS
- Change IP TTL Propagation
- Configure MP-IBGP
- Configure VRF Instances
- Configure RIP as PE-CE Routing Protocol
- Configure EIGRP as PE-CE Routing Protocol
- Configure OSPF as PE-CE Routing Protocol
- Configure BGP as PE-CE Routing Protocol
- Configure a Central Services VPN
- Configure MPLS Traffic Engineering
- Implement Core MPLS Environment
- Implement EIGRP, OSPF, and BGP Based VPNs
- Implement MPLS Traffic Engineering