

## CI – MPLST

# Implementing Cisco MPLS Traffic Engineering & Other Features v2.0



### Summary

#### Duration

5 Days

#### Vendor

Cisco

#### Category

Routing

### Introduction

The Implementing Cisco MPLS Traffic Engineering and Other Features (MPLST) course is recommended training for individuals seeking advanced MPLS based knowledge and skills. The course will enable learners to gather information from the technology basics to some of the more updated features and functions such as Traffic Engineering, Carrier Supporting Carrier and Any Transport over MPLS (AToM). The focus of the course is on technology issues of MPLS from the Service Providers perspective and how to configure some of those features and functions in an existing routed environment

### Prerequisites

BGP, QOS , MPLS or equivalent knowledge

### Course Objectives

After completing this course the student should be able to:

- Identify MPLS's peer-to-peer architecture and explain label allocation, routing update distribution and packet forwarding model in this architecture
- Given a working MPLS network and diagram of a network, used the CISCO IOS commands required to successfully configure, monitor, and troubleshoot service provider support using the MPLS Carrier supporting Carrier service.
- Identify the MPLS Traffic Engineering architecture and explain how MPLS implements traffic engineering, establishes the constraint-based path and assigning traffic to traffic trunks
- Given a working MPLS network and diagram of a network, used the CISCO IOS commands required to successfully configure, monitor, and troubleshoot MPLS Traffic Engineering.
- Given a working MPLS network and diagram of a network, used the CISCO IOS commands required to successfully implement a defined SLA using the MPLS QoS services
- Given a working MPLS network and diagram of a network, used the CISCO IOS commands required to successfully configure, monitor, and troubleshoot layer-2 services using the Any Transport over MPLS service.

- Given a working MPLS network and diagram of a network, used the CISCO IOS commands required to successfully configure, monitor, and troubleshoot IPv6 support in a MPLS environment.

### Course Outline

- Module 1: MPLS VPN ReviewMPLS Label Assignment and Distribution Frame-Mode/Cell-Mode
- Module 2: Carrier Supporting Carrier (CsC)
- Module 3: MPLS Traffic Engineering Technology
- Module 4: Configuring MPLS Traffic Engineering
- Module 5: MPLS Quality of Service
- Module 6: Any Transport over MPLS (AToM)
- Module 7: MPLS IPv6 support

### Associated Certifications & Exams

On successful completion of this course students will receive a Torque IT attendance certificate.