



Multiprotocol Label Switching/Transport Profile (MPLS/TP)

06 - 10 Sep 2026
Istanbul (Turkey)



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Ref.: 15785_326782 **Date:** 06 - 10 Sep 2026 **Location:** Istanbul (Turkey) **Fees:** 5500 **Euro**

Introduction:

Multiprotocol Label Switching/Transport Profile MPLS/TP is a network transport technology that combines the efficiency of MPLS with the reliability and robust features of traditional transport networks. To meet the high performance, scalability, and resiliency demands of modern carrier-grade networks, MPLS/TP enables the creation of packet-switched networks while offering predictable and consistent delivery of services. Its design is particularly suited for delivering services across IP-based and traditional transport networks, such as SONET/SDH. It provides enhanced fault management, OAM Operations, Administration, and Maintenance capabilities, and end-to-end traffic engineering.

By integrating MPLS with transport-centric principles, MPLS/TP enables operators to build highly efficient, scalable, cost-effective transport networks suitable for converged services. The Multiprotocol Label Switching/Transport Profile MPLS/TP course provides a comprehensive understanding of multiprotocol label-switching MPLS and its application in modern network architectures. What is multiprotocol label-switching? It is a high-performance mechanism that directs data through networks based on short path labels instead of long network addresses.

This Multiprotocol Label Switching/Transport Profile MPLS/TP training explores the definition of multiprotocol label-switching, its architecture, and its evolution into MPLS/TP Transport/Profile for carrier-grade transport networks. Participants will learn how MPLS/TP works, its meaning, and its advantages compared to traditional MPLS in the MPLS vs MPLS/TP discussion. They will gain insights into the multiprotocol label-switching architecture and the role of the MPLS transport profile in enhancing network reliability and scalability. It is essential to understand MPLS/TP, its practical applications, and how it ensures efficient, secure, and scalable transport solutions.

Targeted Groups:

- Network Engineers.
- Telecommunications Professionals.
- Service Providers.
- IT Infrastructure Managers.
- Transport Network Operators.
- Systems Integrators.
- Network Architects.
- Data Center Administrators.
- Operations and Maintenance Teams.
- Enterprise Network Managers.

Course Objectives:

At the end of this Multiprotocol Label Switching/Transport Profile MPLS/TP course, the participants will be able to:

- Understand the fundamentals of MPLS/TP technology and architecture.
- Explore MPLS/TP network design and deployment strategies.
- Implement effective traffic engineering using MPLS/TP.
- Learn how to configure and manage OAM for MPLS/TP networks.
- Enhance skills in fault management and network resiliency.
- Apply Quality of Service QoS principles in MPLS/TP environments.
- Master techniques for end-to-end service provisioning and protection.
- Gain expertise in troubleshooting and maintaining MPLS/TP networks.
- Learn to integrate MPLS/TP with existing transport networks.
- Monitor and optimize network performance for MPLS/TP systems.

Targeted Competencies:

By the end of this Multiprotocol Label Switching/Transport Profile MPLS/TP training, the participant's competencies will:

- MPLS/TP Network Design.
- Traffic Engineering and Path Management.
- Operations, Administration, and Maintenance OAM.
- Fault Management and Network Resiliency.
- Quality of Service QoS Implementation.
- Network Troubleshooting and Diagnostics.
- End-to-End Service Provisioning.
- Label Distribution and Switching.
- Network Security and Protection Mechanisms.
- Performance Monitoring and Optimization.

Course Content:

Unit 1: Introduction to MPLS/TP:

- Overview of MPLS technology and its evolution to MPLS/TP.
- Key components and architecture of MPLS/TP networks.
- Differences between MPLS and MPLS/TP.
- Benefits of using MPLS/TP in transport networks.
- Applications and use cases for MPLS/TP.
- Understanding MPLS/TP standards and protocols.

Unit 2: MPLS/TP Network Design and Architecture:

- Designing scalable MPLS/TP networks for transport environments.
- Label switching and distribution principles in MPLS/TP.
- Establishing Label Switched Paths LSPs for data forwarding.
- Traffic engineering fundamentals in MPLS/TP networks.
- Path computation and routing mechanisms.
- MPLS/TP network segmentation and virtual private networks VPNs.
- Integration with legacy transport networks SONET/SDH.

Unit 3: Operations, Administration, and Maintenance OAM:

- Introduction to OAM functions in MPLS/TP.
- Tools and techniques for fault detection and isolation.
- Performance monitoring in MPLS/TP networks.
- Bidirectional Forwarding Detection BFD and Continuity Checks CC.
- Troubleshooting and diagnostics using MPLS/TP OAM tools.
- Implementing alarm management and reporting systems.
- Enhancing network visibility and proactive maintenance.

Unit 4: Quality of Service QoS and Traffic Management:

- Introduction to QoS principles in MPLS/TP.
- Configuring traffic classes and priority levels.
- Bandwidth allocation and resource management.
- Ensuring predictable performance with QoS policies.
- Traffic shaping, policing, and queuing mechanisms.
- End-to-end service level agreements SLAs in MPLS/TP.
- Handling congestion and packet loss in MPLS/TP networks.

Unit 5: Network Resiliency, Security, and Protection:

- Understanding fault-tolerant design in MPLS/TP networks.
- Fast reroute FRR techniques for quick recovery.
- Implementing protection switching and backup paths.
- Ensuring network security with MPLS/TP.
- Methods for preventing unauthorized access and attacks.
- Encryption and authentication in MPLS/TP traffic.
- Monitoring and mitigating risks in MPLS/TP networks.



Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

**Registration form on the :
Multiprotocol Label Switching/Transport Profile (MPLS/TP)**

code: 15785 **From:** 06 - 10 Sep 2026 **Venue:** Istanbul (Turkey) **Fees:** 5500 **Euro**

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