



Who Should Attend?

Those requiring knowledge of the principles of MPLS, its flexibility and function within a modern network, especially Project Managers, System Engineers, Customer Care Representatives, Sales Engineers, Consultants, and anyone else interested in MPLS concept and principles.

Course Scope

1. Introduction to MPLS.
 - Label Switching Concept.
 - Proprietary Solutions.
 - Standardisation of Bodies and Documents.
2. MPLS Concepts and Terminology.
 - Labels.
 - Headers.
 - Forwarding Equivalence Class.
 - Label Switched Path.
3. Architecture.
 - Label Switched Router.
 - Label Edge Router.
 - Ordered vs. Independent Control.
4. Signalling Protocols.
 - Label Distribution Protocol.
 - Resource Reservation Protocol – TE.
5. MPLS Protection Mechanisms.
 - End-to-end protection.
 - Fast ReRoute.
6. QoS in MPLS.
 - Definitions.
 - Integrated Services (IntServ) and MPLS.
 - Differentiated Services (DiffServ) and MPLS.
7. Applications.
 - MPLS Virtual Private Networks (VPN).
 - Pseudowire Emulation (PWE3).
 - Virtual Private LAN Services (VPLS).
8. MPLS in Mobile Core Networks.

Course Objectives

This course is focused on Multi-Protocol Label Switching, an interworking technology that has been successfully introduced to the world market. The major principle of this course is to deliver the generic and comprehensive overview of MPLS, suitable for anyone dealing with datacom and interworking issues.



Prerequisites

Participants are expected to have basic understanding of different technologies used in WANs and LANs (ATM, Ethernet). Additionally, they should be familiar with routing, internetworking, and communication protocols (preferably IP).

Training Structure

One-day training divided into logical sessions.

Methodology

Instructor-led training.