

Essentials of MPLS

"Highlighting the key concepts and terminology related to MPLS"

Overview

As telecommunications networks evolve there is a requirement to have competent staff that can plan the network, plan migration strategies, evaluate equipment, manage & troubleshoot the infrastructure and ensure that customers have a quality experience. This workshop will provide a brief overview of the capabilities and issues related to MPLS technology and its application in the telecommunications network environment. All of the terminology and jargon is explained in a clear and precise manner as the course progresses by our highly skilled trainer.

Who Can Benefit

This workshop is designed for those who need a basic understanding of the key concepts and terminology related to MPLS, how the various concepts relate to each other and the applications of MPLS in a network context.

Pre-requisite Knowledge

An understanding of packet switched IP networks

Course Content

- Introduction
 - Transmission requirements
 - Circuit and packet switching
 - IP review
 - Switching and routing
 - Rationale for MPLS
 - MPLS in Telco & mobile networks
 - What is Metro Ethernet?
- MPLS Concepts & Terminology
 - IP Routing and Forwarding
 - MPLS Terminology
 - MPLS devices
 - Label switched paths
- MPLS Architecture & Operation
 - MPLS operation
 - Label swapping
 - Label structure
 - Control plane
 - Forwarding plane
 - Label Distribution Protocol (LDP)
 - MPLS-TP
- MPLS Applications
 - What is a Virtual Private Network (VPN)?
 - MPLS VPNs
 - L2 VPN
 - L3 VPN
 - Traffic Engineering with MPLS
 - MPLS and QoS

DURATION 1 day

MAXIMUM CLASS SIZE 20