

Course Name: Metro Ethernet Fundamentals

Course Overview:

Metro networks are the connections that subscribers and businesses use to connect to the WAN. Metro Ethernet allows for accepted protocols to be used from end-to-end providing higher-bandwidth to subscribers and higher resource utilization by service providers. This course covers the fundamentals of Metro Ethernet including traffic engineering practices, Quality of Service (QoS) considerations, and different transport technologies.

Course Length: 1 day

Who should attend?

- Field Service Technicians
- Field Engineers
- Managers/Field Supervisors
- Traffic Engineers

You will learn:

- History of Metro Ethernet
- Market Analysis
- Technology
- Types of Metro Ethernet
- Transport Services
- Traffic Engineering
- Quality of Service
- Equipment

Prerequisites: None

Customizable Course: Yes



Course Content:

Metro Ethernet Overview

- Introduction
- History of Metro Area Networks
- Market Analysis and Trends
 - North America
 - Europe
 - Asia

Technology

- LAN vs. WAN
- Ethernet
- Circuit vs. Packet Switching
- TDM Circuits
- Services
- Convergence

Metropolitan Area Networks

- Network Layout
- Types of MANs
- Advantages and Disadvantages
- Transport Technologies
 - Low Speed
 - High Speed
 - SDH/SONET

Metro Ethernet Technology

- Pure Ethernet
- Transparent Tunneling
- SDH-Based
- MPLS-Based

Optimization

- Label Switching
- Traffic Engineering
- Quality of Service (QoS)

Metro Ethernet Equipment

- Infrastructure
- Interface
- Test Equipment
- Provisioning





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