Course Outline:

Layer 2 Switching

Ethernet Bridging Basics

Terminology and Design Considerations

Enterprise Switching Platforms

Enabling and Monitoring Layer 2 Switching Operations

Virtual Networks

VLANs

Configuring and Monitoring VLANs

Voice VLAN

Native VLAN

Routed VLAN Interfaces

Spanning Tree

Spanning Tree Protocol (STP)

Rapid Spanning Tree Protocol (RSTP)

Configuring and Monitoring STP and RSTP

Protection Features

Port Security

MAC Limiting

Persistent MAC Limiting

DHCP Snooping

Dynamic ARP Inspection

IP Source Guard

Device Security and Firewall Filters

Storm Control

Firewall Filters

Virtual Chassis

High Availability Networks

Configuring and Monitoring Virtual Chassis

High Availability (HA) Features

HA Networks

Link Aggregation Groups

Redundant Trunk Groups

Graceful Routing Engine Switchover

Nonstop Active Routing

Nonstop Bridging