

Interconnecting Cisco Networking Devices 2 (ICND2 v3.0)

Length: 5 Days

Prerequisites:

- Interconnecting Cisco Networking Devices 1 (ICND1 v3.0)
- Understanding network fundamentals
- Implementing local area networks
- Implementing Internet connectivity
- Managing network devices
- Securing network devices
- Implementing basic IPv6 connectivity

Summary: In this course, you will learn how to install, configure, operate, and troubleshoot a small enterprise network. This course will teach learners how to:

- Operate a medium-sized LAN with multiple switches, supporting VLANs, trunking, and spanning tree
- Troubleshoot IP connectivity
- Configure and troubleshoot EIGRP in an IPv4 environment, and configure EIGRP for IPv6
- Configure and troubleshoot OSPF in an IPv4 environment and configure OSPF for IPv6
- Characteristics, functions, and components of a WAN
- How device management can be implemented using the traditional and intelligent ways

COURSE CONTENT

IMPLEMENTING SCALABLE MEDIUM-SIZED NETWORK

- Troubleshooting VLAN
- Connectivity Building Redundant
- Switched Topology Improving
- Redundant Switched Topology
- Understanding Layer 3 Redundancy

TROUBLESHOOTING BASIC CONNECTIVITY

- Troubleshooting IPv4 Network
- Troubleshooting IPv6 Network
- Implementing an EIGRP-Based Solution

IMPLEMENTING AN EIGRP

- Troubleshooting EIGRP
- Implementing EIGRP for IPv6

IMPLEMENTING A SCALABLE, MULTIAREA NETWORK

- OSPF Overview Multiarea OSPF
- IPv4 Implementation
- Troubleshooting Multiarea OSPF
- Examining OSPFv3

WIDE-AREA NETWORKS

- Understanding WAN Technologies
- Configuring Serial Encapsulation
- Establishing a WAN Connection
- Using... Introducing VPN Solutions
- Configuring GRE Tunnels

NETWORK DEVICE MANAGEMENT

- Configuring Network Devices to Support
- Managing Cisco Devices
- Licensing