

Interconnecting Cisco Networking Devices Part 2

This 5-day instructor-led Interconnecting Cisco Networking Devices Course enhances applicable knowledge of how to manage, install, operate, and configure IPv4 and IPv6 Networks, WAN Networks, DNS, and adhere to Dynamic Host Configuration Protocols (DHCP)

Objective

Upon completion of this Cisco qualification, individuals will have the knowledge and skills to:

- Reviewing and Confirming knowledge of how to Install and Operate IP Data Networks
- Support VLANs and Trunking requirements
- Be able to discuss router variations and considerations when implementing new networks
- Establish and Maintain Internet Connectivity
- OSPF Troubleshooting and problem solving
- EIGRP Troubleshooting and problem solving
- NAT v PAT Configurations
- Configure and Verify IPv6 and IPv4
- Build Multiple Cisco Switch LANs
- Manage Network Security
- Implement IPv6 and IPv4 Simultaneously
- Utilising and implementing WANs

Details

Duration: 5 Days

Who is this course for

Individuals must possess either the Interconnecting Cisco Networking Devices Part 1 Certification or the equivalent knowledge concerning installation, configuration, and troubleshooting of small-medium networks.

Course Content

During this broad and comprehensive Cisco Course, individuals will learn about:

- Implementing Small-Medium Networks
- Switched Network Construction - Multiple and Singular
- Single Area OSPFs
- LAN Extensions
- Implementing WAN
- Spanning Tree Protocols

IP Data Network Operations

- Routers, bridges, and hubs
- Meeting network requirements
- Data Flow between networks

LAN Switching Technologies

- Ethernet Networks
- Advanced Cisco switching concepts such as collision domains and switching methods including Store, forward, and CAM Tables
- Configure Remote Access Management Systems
- Console and VTY Logins
- Configuring and Routing VLANs

IP Address Configuration

- IPv4 Private and Public IPs
- IPv6 Addresses - Unicast, Multicast, EUI 64, and Autoconfiguration
- Meeting LAN/WAN Requirements
- VLSM
- Dual Stacks - simultaneously running IPv6 and IPv4

IP Routers

- Routing Concepts - packet forwarding and router lookups
- Utilising CLIs
- VTY Logins
- Ethernet Operations
- Router Configurations
- Static v Dynamic Routers
- InterVLAN Routers - upstream routing

IP Admin

- Configuring DHCP
- ACL Applications - configuring and verifying
- NAT Operations - Static and Overloading
- Client NTP

Network Device Safety

- Implementing Security Features - Passwords and MAC Addresses
- Secret v Enable
- VTYS
- Shutting down non-utilised port VLANs

Troubleshooting

- Resolving VLAN Issues
- Cisco Switch Trunking
- Overcoming Layer 1 and ACL Issues
- Permitting Networks

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