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What is Interconnecting Cisco Networking Devices Part 1?

This 5-day instructor-led Interconnecting Cisco Networking Devices Course elevates a candidate's knowledge concerning how to install, operate, configure, and manage IPv4 and IPv6 Networks - covering a broad range of topics from LAN switch configurations to Implementing Cisco Routers. Individuals will graduate from this course with a developed understanding of how to initiate connectivity and manage small-medium WAN networks, in addition to gaining CCENT (Cisco Certified Entry Networking Technician) accreditation - demonstrating network support proficiency. This training course offers a comprehensive overview of modern interconnected networks, whilst giving candidates the best opportunity to develop their confidence in terms of implementing new network processes. Individuals can subsequently enhance their networking qualification repertoire upon completing this Part 1 Cisco Course, through undertaking the Interconnecting Cisco Networking Devices Part 2 course offered by Silicon Beach.

Who's this Cisco Course intended for?

- Individuals involved in the installation, verification, and preservation of LAN Networks and their security
- Network Admin Staff
- Support or IT Technicians
- IT Help-desk staff

Interconnecting Cisco Networking Devices Part 1 Examination Details

- 55-Question Exam
- 90 minutes
- Closed Book
- Tests a delegates awareness of how to install, operate and troubleshoot issues that may arise in small-medium networks

What's included in the fee?

- Comprehensive Cisco Exam Guidance
- Cisco Course Materials
- Hardware
- Tuition from a highly experienced Cisco tutor
- Certificate
- Exam Fee
- Refreshments

Course Objectives

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- Install and Operate IP Data Networks
- Establish Internet Connectivity
- Troubleshooting and overcoming arising issues
- Configure and Verify IPv6 and IPv4
- Configure Routers and Cisco Switches
- Build LANs
- Manage Network Security
- Implement IPv6 and IPv4 Simultaneously

During this Cisco Course, individuals will learn about:

IP Data Network Operations

- Understand the functions of routers, bridges, and hubs
- Meeting network requirements
- Data Flow between networks

LAN Switching Technologies

- Ethernet Networks
- Basic Cisco switching concepts including collision domains and different ways to switch (Store, forward, 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 lookup methods
- Utilising CLIs
- VTY Logins
- Ethernet Operations
- Router Configurations
- Verifying OSPF
- Static and Dynamic Routers
- InterVLAN Routers - upstream routing

IP Services

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- Client NTP

Network Device Safety

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

Troubleshooting

- Resolving VLAN Issues
- Trunking issues with Cisco Switches
- Layer 1 and ACL Issues and how to overcome them
- Permitting Networks

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