

ROUTE v1.0 - Implementing Cisco IP Routing



Course outline

Module 1: Planning Routing Services to Requirements

- Lesson 1: Assessing Complex Enterprise Network Requirements
- Lesson 2: Common Maintenance Processes and Procedures

Module 2: Implementing an EIGRP based Solution

- Lesson 1: Planning Routing Implementations with EIGRP
- Lesson 2: Implementing and Verifying Basic EIGRP for the Enterprise LAN Architecture
- Lesson 3: Configuring and Verifying EIGRP for the Enterprise WAN Architecture
- Lesson 4: Implementing and Verifying EIGRP Authentication
- Lesson 5: Advanced EIGRP Features in an Enterprise Network

Module 3: Implementing a Scalable Multiarea Network OSPF Based Solution

- Lesson 1: Planning Routing Implementations with OSPF as Scalable Routing Protocol
- Lesson 2: How OSPF Packet Processes Work
- Lesson 3: Improving Routing Performance in a Complex Enterprise Network
- Lesson 4: Configuring and Verifying OSPF Routing
- Lesson 5: Configuring and Verifying OSPF Route Summarization
- Lesson 6: Configuring and Verifying OSPF Special Area Types
- Lesson 7: Configuring and Verifying OSPF Authentication

Module 4: Implement an IPv4-based Redistribution Solution

- Lesson 1: Assessing Network Routing Performance and Security Issues
- Lesson 2: Operating a Network Using Multiple IP Routing Protocols
- Lesson 3: Configuring and Verifying Route Redistribution

Module 5: Implementing Path Control

- Lesson 1: Assessing Path Control Network Performance Issues
- Lesson 2: References to additional Path Control in E-Learning

Module 6: Connection of an Enterprise Network to an ISP Network

- Lesson 1: Planning the Enterprise-to-ISP Connection
- Lesson 2: Considering the Advantages of Using BGP
- Lesson 3: Comparing the Functions and Uses of EBGp and IBGP
- Lesson 4: Configuring and Verifying Basic BGP Operations
- Lesson 5: Using the BGP Attributes and Path Selection Process
- Lesson 6: E-Learning Training on IPv6 and Routing for Branch Offices and Remote Workers

Lab Outline

- Lab 1-1: Assess Skills for Implementing Complex Networks
- Lab 2-1: Configure and Verify EIGRP Operations
- Lab 2-2: Configure and Verify EIGRP Circuit Emulation and Frame Relay Operations
- Lab 2-3: Configure and Verify EIGRP Authentication
- Lab 2-4: Implement and Verify EIGRP operations
- Lab 3-1: Configure and Verify OSPF to Improve Routing Performance
- Lab 3-2: Implement and Verify OSPF Multiarea Routing
- Lab 3-3: Configure and Verify OSPF Route Summarization for Interarea and External
- Lab 3-4: Configure and Verify OSPF Special Area Types
- Lab 3-5: Configure and Verify OSPF Authentication
- Lab 4-1: Configure Route Redistribution Between Multiple IP Routing Protocols
- Lab 5-1: Configure and Verify Path Control Between Multiple IP Routing Protocols
- Lab 6-1: Configure BGP Operations
- Lab 6-2: Manipulate EBGp Path Selections