

Implementing Cisco IP Routing (ROUTE) v1.0

This 5-day course is designed to help students prepare for Cisco CCNP® certification. The ROUTE course is designed to provide professionals of medium to large network sites with information on the use of advanced routing in implementing scalability for Cisco routers that are connected to LANs and WANs. The goal is to train professionals to dramatically increase the number of routers and sites using these techniques instead of redesigning the network when additional sites or wiring configurations are added. The ROUTE training reinforces the instruction by providing students with hands-on labs to ensure they thoroughly understand how to implement advanced routing within their networks.



AUDIENCE

Network professionals who want to correctly implement routing-based solutions given a network design using Cisco IOS services and features, where implementation of routing includes planning, configuration, and verification. The typical job roles for this type of network professional are network engineers, network operations center (NOC) technical support personnel, and help desk technicians

PREREQUISITES

Knowledge and skill level equal to Cisco CCNA® certification.

Knowledge of and experience with the implementation and verification of enterprise routing and switching technologies as offered by the *CCNA201: ICND Part 1-Interconnecting Cisco Networking Devices* and *CCNA220: ICND Part 2-Interconnecting Cisco Networking Devices* courses or equivalent skills and knowledge.

WHAT YOU WILL LEARN

- » Plan and document the configuration and verification of routing protocols and their optimization in enterprise networks. Identify the technologies, components, and metrics of EIGRP used to implement and verify EIGRP routing in diverse, large-scale internetworks based on requirements.
- » Identify, analyze, and match OSPF multiarea routing functions and benefits for routing efficiencies in network operations in order to implement and verify OSPF routing in a complex enterprise network.
- » Implement and verify a redistribution solution in a multi-protocol network that uses Cisco IOS features to control path selection and provides a loop-free topology according to a given network design and requirements.
- » Evaluate common network performance issues and identify the tools needed to provide Layer 3 path control that uses Cisco IOS features to control the path.
- » Implement and verify a Layer 3 solution using BGP to connect an enterprise network to a service provider.

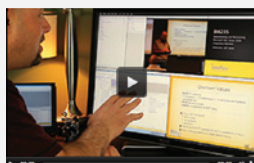
“Jeremy delivered the course in such a way as to make learning fun.”

Cisco Student
Phoenix, AZ

\$3195.00

- 5-Day Course
- Promo & package discounts apply.
- Cisco CCNP® certification.
- CLC Eligible

QUESTIONS?
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COURSE OUTLINE

Implementing Cisco IP Routing (ROUTE) v1.0

1: Planning Routing Services to Requirements

- » Lab: Assess Skills for Implementing Complex Networks

2: Implementing an EIGRP-Based Solution

- » Lab: Configure and Verify EIGRP Operations
- » Lab: Configure and Verify EIGRP Circuit Emulation and Frame Relay Operations
- » Lab: Configure and Verify EIGRP Authentication
- » Lab: Implement and Verify EIGRP operations

3: Implementing a Scalable Multi area Network OSPF-Based Solution

- » Lab: Configure and Verify OSPF to Improve Routing Performance
- » Lab: Implement and Verify OSPF Multi area Routing
- » Lab: Configure and Verify OSPF Route Summarization for Inter area and External Routes
- » Lab: Configure and Verify OSPF Special Area Types
- » Lab: Configure and Verify OSPF Authentication

4: Implementing an IPv4-Based Redistribution Solution

- » Lab: Configure Route Redistribution Between Multiple IP Routing Protocols

5: Implementing Path Control

- » Lab: Configure and Verify Path Control Between Multiple IP Routing Protocols

6: Connection of an Enterprise Network to an ISP Network

- » Lab: Configure BGP Operations
- » Lab: Manipulate EBGP Path Selections