COURSE OVERVIEW

This intensive five-day course focuses on using Cisco routers connected in LANs and WANs typically found at medium to large network sites. Upon completion of this training course, you will be able to select and implement the appropriate Cisco IOS® services required to build a scalable, routed network. This course is part of the recommended training path for those students seeking the Cisco Certified Network Professional (CCNP®), Cisco Certified Design Professional (CCDP®), and Cisco Certified Internetwork.

AUDIENCE

- Network administrators and technicians who are responsible for implementing and troubleshooting complex routed network environments.
- CCNP and CCDP candidates
- CCIE® Routing and Switching candidates

OBJECTIVES

Upon completion of this course, you will be able to:

- Extend IP addresses, using VLSM and route summarization
- Configure OSPF, EIGRP, and BGP
- Control network activity using access list-based features
- Redistribute routes between different routing protocols such as RIP, IGRP, EIGRP and OSPF
- Configure Cisco routers with Ethernet LAN and serial WAN interfaces

PREREQUISITES

To fully benefit from this course, students should already possess certain prerequisite skills. These skills can be acquired from self-paced or instructor-led training sessions and from work experience. Students should have a working knowledge of:

- Commonly used networking terms, numbering schemes, and topologies
- The Open System Interconnection (OSI) reference model
- Operation and configuration of a Cisco router
- TCP/IP stack and configuration of IP addresses
- Distance vector routing protocol (Routing Information Protocol [RIP], Interior Gateway Routing Protocol [IGRP]) operation and configuration
- Static and default route usage, implementation, and configuration
- The contents and interpretation of a Cisco routing table
- Traffic filtering with standard and extended access lists
- Verifying router configuration using show and debug command output
- WAN serial interface configuration using HDLC
- WAN serial interface configuration using Frame Relay permanent virtual circuits (PVCs)

COURSE MODULES

Module 1: Scalable Internetworks

Module 2: Scalable Routing Protocols

Module 3: Controlling Scalable Internetworks
Available for Dedicated/Custom only, your site or ours.

Building Scaleable Cisco® Networks
Course Number CSBSCI  •  5 Days

► COURSE OUTLINE

• Routing Principles
• Extending IP Addresses
• Configuring OSPF in a Single Area
• Interconnecting Multiple OSPF Areas
• Configuring Enhanced EIGRP
• Configuring Basic Border Gateway Protocol
• Implementing BGP in Scalable Networks
• Optimizing Routing Update Operation

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