INTERCONNECTING CISCO NETWORKING DEVICES: ACCELERATED (CCNAX V3.0)

Course number : 126

Overview

The Cisco CCNA® curriculum includes a third course, Interconnecting Cisco Networking Devices: Accelerated (CCNAX), a derivative works course consisting of Interconnecting Cisco Networking Devices, Part 1 (ICND1) and Interconnecting Cisco Networking Devices, Part 2 (ICND2) content in its entirety, but with the content merged into a single course. Overlapping content between ICND1 and ICND2 is eliminated and content is rearranged for the purpose of the course flow. Interconnecting Cisco Networking Devices: Accelerated (CCNAX), is a instructor-led training course that teaches learners how to install, operate, configure, and verify a basic IPv4 and IPv6 network, including configuring a LAN switch, configuring an IP router, connecting to a WAN, and identifying basic security threats. Also covers topics in more depth and teaches learners how to perform basic troubleshooting steps in enterprise branch office networks, preparing learners for Cisco CCNA certification.

The ideal candidate would be someone who has worked in a data network environment (PC support/help desk or network operations/monitoring), and has had hands-on experience, though no formal training, with Cisco IOS devices. This boot camp will serve to review and expand on what the candidate already knows and add to it, the detailed configuration and implementation of Cisco IOS devices.

EXAM INFORMATION:

- Course tuition includes an exam voucher.

CERTIFICATION INFORMATION:

- This CCNAX accelerated bootcamp course fast-tracks you to CCNA Routing & Switching certification by offering you the full training you need in only five days. The course features extended training hours and is intended for individuals who already have hands-on experience working in a data center environment with Cisco IOS devices, but no formal training.

REDEEM YOUR CISCO LEARNING CREDITS (CLCS):

- This course is eligible for Cisco Learning Credit (CLC) redemption.
- Want to learn more about Cisco CLCs? **Click to view our CLCs infographic**.

What you'll learn

- Describe network fundamentals and build simple LANs
- Establish Internet connectivity
- Manage network device security
- Describe IPv6 basics
- Troubleshoot VLAN issues, explain how STP works, configure EtherChannel, and understand the idea behind Layer 3 redundancy
- Troubleshoot IP connectivity
- Define the characteristics, functions, and components of a WAN
- Configure and troubleshoot EIGRP in an IPv4 environment, and configure EIGRP for IPv6
- Configure, verify, and troubleshoot multi-area OSPF
- Describe SNMP, syslog and NetFlow, and manage Cisco device configurations, IOS images, and licenses.

Who should attend

- Cisco Authorized course content
- Authorized Cisco CCSI Instructor

Note: Students registering for this course will be receiving their course kit in a digital format. To be able to view your digital kit, it is recommended that you bring a laptop PC and/or a compatible tablet to be able to view the course materials and labs on separate screens.
Please be aware that this digital version is designed for online use, not for printing. You can print up to 10 pages only in each guide within a course. Please note that every time you click the Print button in the book, this counts as one page printed, whether or not you click OK in the Print dialog.

Pre-requis

- Basic computer literacy
- Basic PC operating system navigation skills
- Basic Internet usage skills
- Basic IP address knowledge

Prospective CCNAX v3.0 students should prepare themselves for course days consisting of at least 10 hours and as long as 12 hours. Homework will be assigned and reviewed daily. Those new to networking and to Cisco IOS should consider taking the ICND1 and ICND2 classes instead of CCNAX v3.0.

Outline

Course Introduction

The Course Introduction provides learners with the course objectives and prerequisite learner skills and knowledge. The Course Introduction presents the course flow diagram and the icons that are used in the course

illustrations and figures. This course component also describes the curriculum for this course, providing learners with the information that they need to make decisions regarding their specific learning path.

- Overview
- Course Goal and Objectives
- Course Flow
- Your Training Curriculum
- Additional References

Building a Simple Network

- Exploring the Functions of Networking
- Understanding the Host-to-Host Communications Model
- Introducing LANs
- Operating Cisco IOS Software
- Starting a Switch
- Lesson 6: Understanding Ethernet and Switch Operation
- Lesson 7: Troubleshooting Common Switch Media Issues

Implementing Scalable Medium-Sized Networks

- Implementing and Troubleshooting VLANs and Trunks
- Building Redundant Switched Topologies
- Improving Redundant Switched Topologies with EtherChannel
- Routing Between VLANs
- Using a Cisco IOS Network Device as a DHCP Server
- Understanding Layer 3 Redundancy
- Implementing RIPv2

Introducing IPv6

- Introducing Basic IPv6
- Understanding IPv6 Operation
- Configuring IPv6 Static Routes

Troubleshooting Basic Connectivity

- Troubleshooting IPv4 Network Connectivity
- Troubleshooting IPv6 Network Connectivity

Implementing Network Device Security

- Securing Administrative Access
- Implementing Device Hardening
- Implementing Advance Security

Implementing an EIGRP-Based Solution

- Implementing EIGRP
- Implementing EIGRP for IPv6
- Troubleshooting EIGRP

Summary Challenge

- Troubleshooting a Medium-Sized Network
- Troubleshooting Scalable Medium-Sized Network

Implementing a Scalable OSPF-Based Solution

- Understanding OSPF
- Multiarea OSPF IPv4 Implementation
- Implementing OSPFv3 for IPv6
- Troubleshooting Multiarea OSPF

Implementing Wide-Area Networks

- Understanding WAN Technologies
- Understanding Point-to-Point Protocols
- Configuring GRE Tunnels
- Configuring Single-Homed EBGP

Network Device Management

- Implementing Basic Network Device Management
- Evolution of Intelligent Networks
- Introducing QoS
- Managing Cisco Devices
- Licensing

Summary Challenge

- Troubleshooting Scalable Multiarea Network
- Implementing and Troubleshooting Scalable Multiarea Network

Schedule

Location Dates Status

Tuition

IN CLASSROOM OR ONLINE PRIVATE TEAM TRAINING

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FAQ

Certification