CCNAX v2.0 - Interconnecting Cisco Networking Devices Accelerated (CCNAX) v2.0 (5 Days)

Course Overview

Interconnecting Cisco Networking Devices: Accelerated (CCNAX), is a course consisting of ICND1 and 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.

This course teaches learners how to install, operate, configure, and verify a basic IPv4 and IPv6 network, including configuring a LAN switch, configuring an IP router, identifying basic security threats, understanding redundant topologies, troubleshooting common network issues, connecting to a WAN, configuring EIGRP and OSPF in both IPv4 and IPv6, understanding wide-area network technologies, and getting familiar with device management and Cisco licensing. Learner will encounter more troubleshooting, and more lab time than with the previous version of CCNAX.

Target Audience

Target Candidate: Individuals seeking the Cisco CCNA©_ Routing and Switching certification. The course is also appropriate for pre-sales and post-sales network engineers involved in the installation and support of enterprise branch office networks.

Key Job Tasks:
Configure: Implement the identified solution by applying the planned implementation processes using Cisco IOS commands and applications in the correct order to the selected devices and portions of the network.

Verify: Use the appropriate show and debug commands and applications to ensure that the solution was correctly implemented and is performing as desired.

Troubleshoot: Use the appropriate show and debug commands and applications to identify the cause of basic level network issues and correctly implement a solution that ensures the network is performing as desired.

Job roles: Entry Level Network Engineer, Network Administrator, Network Support Technician or Help Desk Technician.

Prerequisites

The CCNAX is a very fast-paced course and it is recommended that you have working networking knowledge prior to attending class. Skills the learner must have before attending this course are as follows:
- Basic computer literacy
- Basic PC operating system navigation skills Basic Internet usage skills
- Basic IP address knowledge

Course Objectives
- 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

Course Outline
- Module 1: Building a Simple Network
- Module 2: Establishing Internet Connectivity
- Module 3: Managing Network Device Security
- Module 4: Introducing IPv6
- Module 5: Building a Medium-Sized Network
- Module 6: Troubleshooting Basic Connectivity
- Module 7: Wide Area Networks
- Module 8: Implementing an EIGRP-Based Solution
- Module 9: Implementing a Scalable OSPF-Based Solution
- Module 10: Network Device Management