

Cisco Networking Certification Courses

Cisco Certified Network Associate (CCNA)

About Cisco

Cisco System is the world leader in networking for the internet, with over 90% of the market share of internetworking products.

What does Cisco do?

Cisco's networking solutions connect people, computing devices and computer networks, allowing people to access or transfer information without regard to differences in time, place or type of computer system. Cisco offers the industry's broadest range of hardware products used to firm information networks or give people access to those networks.

About Cisco Certification

Cisco certification is a great certification to have for computer technicians who are in the field of networking. Cisco provides high quality routers and switches for large networks.

CCENT - Cisco Certified Entry Networking Technician, the first step in Cisco Networking begins at the associate level. Think of this as the apprentice or foundation level of networking certification. CCENT certification is the first step toward achieving CCNA, which covers medium size enterprise branch networks with more complex connections.

CCNA - Cisco Certified Network Associate, certification validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks, including implementation and verification of connections to remote sites in a WAN. This new curriculum includes basic mitigation of security threats, introduction to wireless networking concepts and terminology, and performance-based skills.

CCNP - Cisco Certified Network Professional, this is the advanced or journeyman level of certification.

CCIE - Cisco Certified Internet Expert, this is the highest level of achievement for network professional, certified an individual as an Expert or Master.

Cisco Certified Network Associate (CCNA)

CCNA is a most popular and demanded Cisco Certification. Getting CCNA certified ensures that the candidate has enough knowledge to plan, configure, operate routed WAN and switched LAN networks using Cisco products. This new curriculum includes basic mitigation of security threats, introduction to wireless networking concepts and terminology, and performance-based skills. This new curriculum also includes (but is not limited to) the use of these protocols: IP, Enhanced Interior Gateway Routing Protocol (EIGRP), Serial Line Interface Protocol Frame Relay, Routing Information Protocol Version 2 (RIPv2), VLANs, Ethernet, access control lists (ACLs).

Course Topics

Exam: 640-822 Interconnecting Cisco Networking Devices Part 1 () v1.0

Exam: 640-816 Interconnecting Cisco Networking Devices Part 2 () v1.0

Exam Description

The 640-802 Cisco Certified Network Associate (CCNA) is the composite exam associated with the Cisco Certified Network Associate certification. Candidates can prepare for this exam by taking the Interconnecting Cisco Networking Devices Part 1 (ICND1) v1.0 (Exam: 640-822) and the Interconnecting Cisco Networking Devices Part 2 (ICND2) v1.0 (Exam: 640-816) courses. This exam tests a candidate's knowledge and skills required to install, operate, and troubleshoot a small to medium size enterprise branch network. The topics include connecting to a WAN; implementing network security; network types; network media; routing and switching fundamentals; the TCP/IP and OSI models; IP addressing; WAN technologies; operating and configuring IOS devices; extending switched networks with VLANs; determining IP routes; managing IP traffic with access lists; establishing point-to-point connections; and establishing Frame Relay connections.

Training Partners:



Learning Solutions
Information Worker Solutions
Networking Infrastructure Solutions



AN ISO 9001: 2000 CERTIFIED ORGANIZATION

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Course Contents

Exam: 640-822 Interconnecting Cisco Networking Devices Part 1

This course focuses on providing the skills and knowledge necessary to install, operate, and troubleshoot a small branch office Enterprise network, including configuring a switch, a router, and connecting to a WAN and implementing network security. A Student should be able to complete configuration and implementation of a small branch office network under supervision.

Course Objectives

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

- Describe how networks function, identifying major components, function of network components and the Open System Interconnection (OSI) reference model.
- Using the host-to-host packet delivery process, describe issues related to increasing traffic on an Ethernet LAN and identify switched LAN technology solutions to Ethernet networking issues.
- Describes the reasons for extending the reach of a LAN and the methods that can be used with a focus on RF wireless access.
- Describes the reasons for connecting networks with routers & how routed networks transmit data through networks using TCP / IP.
- Describe the function of Wide Area Networks (WANs), the major devices of WANs, and configure PPP encapsulation, static and dynamic routing, PAT and RIP routing.
- Use the command-line interface to discover neighbors on the network and managing the router's startup and configuration.

Course Outline

Module 1 - Building a Simple Network
Module 2 - Ethernet Local Area Networks
Module 3 - Wireless Local Area Networks
Module 4 - Exploring the Functions of Routing
Module 5 - Wide Area Networks
Module 6 - Network Environment Management

Exam: 640-816 Interconnecting Cisco Networking Devices Part 2

This course focuses on providing the skills and knowledge necessary to install, operate, and troubleshoot a small to medium-size branch office Enterprise network, including configuring several switches and routers, connecting to a WAN and implementing network security.

Course Objectives

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

- Review how to configure and troubleshoot a small network.
- Expand the switched network from a small LAN to a medium-sized LAN with multiple switches, supporting VLANs, trunking, and spanning tree.
- Describe routing concepts as they apply to a medium-sized network and discuss considerations when implementing routing on the network.
- Configure, verify, and troubleshoot OSPF.
- Determine how to apply ACLs based on network requirements, and to configure, verify, and troubleshoot ACLs on a medium-sized network.
- Describe when to use NAT or PAT on a medium-sized network, and configure NAT or PAT on routers.
- Identify and implement the appropriate WAN technology based on network requirements.

Course Outline

Module 1 - Small Network Implementation
Module 2 - Medium-Sized Switched Network Construction
Module 3 - Medium-Sized Routed Network Construction
Module 4 - Single Area OSPF Implementation
Module 5 - EIGRP Implementation
Module 6 - Access Control Lists
Module 7 - Address Space Management
Module 8 - LAN Extensioning to a WAN