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CISCO

CCNA Certification Training

Course Overview

Our 5- day, instructor-led CCNA v1.0 Implementing and Administering Cisco Solutions course is intended for IT networking professionals who are responsible for medium-sized switched and routed networks. It will teach you:

- How to troubleshoot network problems
- Configure all parts of a network
- How to implement WAN connections
- · How to maintain network security
- Internet Protocol (IP)
- Serial Line Interface Protocol Frame Relay
- Enhanced Interior Gateway Routing Protocol (EIGRP)
- Routing Information Protocol Version 2 (RIPv2)
- Access control lists (ACLs)
- Ethernet
- VLANs

This course will prepare you for the CCNA® Certification exam.

Course Outline

Lecture and Self Study

- Exploring the Functions of Networking
- Introducing the Host-to-Host Communications Model
- Operating Cisco IOS Software
- Introducing LANs
- Exploring the TCP/IP Link Layer
- Starting a Switch Introducing the TCP/IP Internet Layer, IPv4 Addressing, and Subnets
- Explaining the TCP/IP Transport Layer and Application Layer
- Exploring the Functions of Routing
- Configuring a Cisco Router
- Exploring the Packet Delivery Process

- Troubleshooting a Simple Network
- Introducing Basic IPv6
- Configuring Static Routing
- Implementing VLANs and Trunks
- Routing Between VLANs
- Introducing OSPF Building Redundant Switched Topologies
- Improving Redundant Switched Topologies with EtherChannel
- Exploring Layer 3 Redundancy
- Introducing WAN Technologies
- Explaining Basics of ACL Enabling Internet Connectivity
- Introducing QoS Explaining Wireless Fundamentals
- Introducing Architectures and Virtualization
- Explaining the Evolution of Intelligent Networks
- Introducing System
- Monitoring Managing Cisco Devices
- Examining the Security Threat Landscape
- Implementing Threat Defense Technologies Securing Administrative Access
- Implementing Device Hardening

Lab Outline

- Get Started with Cisco Command-Line Interface (CLI)
- Observe How a Switch Operates
- Perform Basic Switch Configuration
- Implement the Initial Switch Configuration
- Inspect TCP/IP Applications
- Configure an Interface on a Cisco Router
- Configure and Verify Layer 2 Discovery Protocols
- Implement an Initial Router Configuration
- Configure Default Gateway
- Explore Packet Forwarding
- Troubleshoot Switch Media and Port Issues
- Troubleshoot Port Duplex Issues
- Configure Basic IPv6 Connectivity
- Configure and Verify IPv4 Static Routes
- Configure IPv6 Static Routes
- Implement IPv4 Static Routing
- Implement IPv6 Static Routing
- Configure VLAN and Trunk
- Troubleshoot VLANs and Trunk
- Configure a Router on a Stick
- Implement Multiple VLANs and Basic Routing Between the VLANs
- Configure and Verify Single-Area OSPF

- Configure and Verify EtherChannel
- Improve Redundant Switched Topologies with EtherChannel
- Configure and Verify IPv4 ACLs
- Implement Numbered and Named IPv4 ACLs
- Configure a Provider-Assigned IPv4 Address
- Configure Static NAT
- Configure Dynamic NAT and Port Address Translation (PAT)
- Implement PAT Log into the WLC
- Monitor the WLC
- Configure a Dynamic (VLAN) Interface
- Configure a DHCP Scope
- Configure a WLAN
- Define a Remote Access Dial-In User Service (RADIUS) Server
- Explore Management Options Explore the Cisco DNA™ Center
- Configure and Verify NTP
- Configure System Message Logging Create the Cisco IOS Image Backup
- Upgrade Cisco IOS Image
- Configure WLAN Using Wi-Fi Protected Access 2 (WPA2) Pre-shared Key (PSK)
- Using the GUI Secure Console and Remote Access
- Enable and Limit Remote Access Connectivity Secure Device Administrative Access
- Configure and Verify Port Security
- Implement Device Hardening

Exam Information

Students can elect to take the 200-301 exam.

CCNA Certification Exam 200-301 Details:

• Number of Questions: 120

• Passing Score: 80%

• Test Duration: 120 minutes

• Test Format: Multiple Choice, Multiple Answer, Drag and drop, Testlets, Simlets, Router & Switch

Simulations

• Test Delivery: Pearson VUE

Exam 200-301 Details:

CCNA Certification Exam Domains:

Either exam option tests candidates on the following domains:

- Network Fundamentals
- IP Connectivity
- IP Services
- Security Fundamentals
- Network Access
- Automation and Programmability

CCNA Certification Training FAQs

What is the average salary for someone with their CCNA?

According to payscale.com, a professionals with their CCNA certification earns on average \$76,000 per year.

Should I earn the CCNA or CompTIA Network+ certification?

It depends on where you are at in your career. If you are just starting out Network+ may be better suited for you whereas if you have more experience, CCNA Routing and Switching (which is considered more challenging by some) may be the right move. We explore this question in more depth on our blog post CCNA vs CompTIA Network+: Which Should I Get?

What do students say about the CCNA Certification Training course?

"Excellent instructor, [he] is knowledgeable and encourages questions and participation. He is able to explain in detail the subject matter we are going over and the 'why we do this' is always answered!" – Student from June 2019

"Great class, loved the instructor. Would recommend to others." -Student from June 2019

Starting at **\$4,195**

ATTENTION

For GSA pricing or Contractor quotes call

