

Cisco Certified Network Associate (CCNA) Routing and Switching Training Boot Camp v3.0 (CS-CCNA)

Modality: Virtual Classroom

Duration: 5 Days

SUBSCRIPTION: Master Plus

About the course:

The CCNA Routing and Switching Crash Course offered by QuickStart is one of the most sought after CCNA certification training out there. This course is designed to provide you all the information you need in order to obtain this certification and clear the test in no time at all. The practical experience it offers, will help you take your skills up a notch, and thus, excel in your career. Our experience and highly talented Cisco instructors will work together with you to impart all the knowledge needed to become qualified as a Cisco certified Network Associate (CCNA).

Our unique boot camp style training has been recognized within the industry as one of the top standing trainings available. QuickStart's training teams are considered to be trailblazers, who have revolutionized the IT industry by providing state of the art training to our students that equip them with upgraded skills for a lucrative career.

This boot camp consists of exam vouchers and aids you in preparing for the following exams.

- 200-125 CCNA

A Cisco Certified Network Administrator can earn up to **\$84,000/-** on average, per annum.

The courses included in this boot camp are;

- Interconnecting Cisco Networking Devices Part 1 (ICND1) v3.0
- Interconnecting Cisco Networking Devices Part 2 (ICND2) v3.0

Course Objectives:

Once the course is complete, the student will be able to;

- Establish internet connectivity
- Develop LAN (Local area network) and explain the fundamentals of the network
- Secure as well as manage network devices
- Understand the process of troubleshooting IP connectivity

- Understand the process of troubleshooting as well as configuring OSPF in IPV4 and IPV6 environments
- Understand the process of operating medium sized LANs through trunking, multiple switches, spanning trees and supporting VLANs.
- Understand the process of configuring EIGRP in IPV4 and IPV6 environments
- Describe the components, characteristics and functions of a WAN
- Explain the process of deploying device management via effective and intelligent methods
- Gain in-depth understanding of virtualization, cloud services, and network programmability related to WAN and other core segments.
- Learn the process of deploying troubleshooting, as well as maintaining medium sized networks, inclusive of connecting WANs and adjusting network security.
- Explain the impact of new technologies like SDN, IoT, IWAN and IoE on evolution pre-requisite

Audience:

This course is intended to be undertaken by the following professionals

- Network Support Technician
- Network Administrator
- Help Desk Technician
- System Engineers
- System Administrators

Pre-requisites:

Prior to enrolling in this course, it is recommended that the student must possess A+, Network+ or a MCP certification. It is developed primarily to be undertaken by aspiring or existing network professionals such as System Engineers, System Administrators, Network Administrator, and PC technicians.

Course Outline:

DAY 1

Module 1: Building a Simple Network

Lesson 1: Exploring the Functions of Networking
Lesson 2: Understanding the Host-to-Host Communications Model
Lesson 3: Introducing LANs
Lesson 4: Operating Cisco IOS Software
Lesson 5: Starting a Switch
Lesson 6: Understanding Ethernet and Switch Operation
Lesson 7: Troubleshooting Common Switch Media Issues
Day 2

Module 2: Establishing Internet Connectivity

Lesson 1: Understanding the TCP/IP Internet Layer
Lesson 2: Understanding IP Addressing and Subnets
Lesson 3: Understanding the TCP/IP Transport Layer
Lesson 4: Exploring the Functions of Routing
Lesson 5: Configuring a Cisco Router
Lesson 6: Exploring the Packet Delivery Process
Lesson 7: Enabling Static Routing
Lesson 8: Learning Basics of ACL
Lesson 9: Enabling Internet Connectivity
Module 3: Summary Challenge

Lesson 1: Establish Internet Connectivity
Lesson 2: Troubleshoot Internet Connectivity
Day 3

Module 4: Implementing Scalable Medium-Sized Networks

Lesson 1: Implementing and Troubleshooting VLANs and Trunks
Lesson 2: Building Redundant Switched Topologies
Lesson 3: Improving Redundant Switched Topologies with EtherChannel
Lesson 4: Routing Between VLANs
Lesson 5: Using a Cisco IOS Network Device as a DHCP Server
Lesson 6: Understanding Layer 3 Redundancy
Lesson 7: Implementing RIPv2
Module 5: Introducing IPv6

Lesson 1: Introducing Basic IPv6
Lesson 2: Understanding IPv6 Operation
Lesson 3: Configuring IPv6 Static Routes
Day 4

Module 6: Troubleshooting Basic Connectivity

Lesson 1: Troubleshooting IPv4 Network Connectivity
Lesson 2: Troubleshooting IPv6 Network Connectivity

Module 7: Implementing Network Device Security

Lesson 1: Securing Administrative Access
Lesson 2: Implementing Device Hardening
Lesson 3: Implementing Advance Security
Module 8: Implementing an EIGRP-Based Solution

Lesson 1: Implementing EIGRP
Lesson 2: Implementing EIGRP for IPv6
Lesson 3: Troubleshooting EIGRP
Module 9: Summary Challenge

Lesson 1: Troubleshooting a Medium-Sized Network
Lesson 2: Troubleshooting Scalable Medium-Sized Network
Day 5

Module 10: Implementing a Scalable OSPF-Based Solution

Lesson 1: Understanding OSPF
Lesson 2: Multiarea OSPF IPv4 Implementation
Lesson 3: Implementing OSPFv3 for IPv6
Lesson 4: Troubleshooting Multiarea OSPF
Module 11: Implementing Wide-Area Networks

Lesson 1: Understanding WAN Technologies
Lesson 2: Understanding Point-to-Point Protocols
Lesson 3: Configuring GRE Tunnels
Lesson 4: Configuring Single-Homed EBGP
Module 12: Network Device Management

Lesson 1: Implementing Basic Network Device Management
Lesson 2: Evolution of Intelligent Networks
Lesson 3: Introducing QoS
Lesson 4: Managing Cisco Devices
Lesson 5: Licensing
Module 13: Summary Challenge

Lesson 1: Troubleshooting Scalable Multiarea Network
Lesson 2: Implementing and Troubleshooting Scalable Multiarea Network