Current Technologies
Computer Learning Centers

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Platinum Learning

Implementing and Administering Cisco Solutions (CCNA) V2.2

WHERE GREAT TRAINING HAPPENS EVERYDAY!

Implementing and Administering Cisco Solutions (CCNA) V2.2

Course Duration

5 Days

Course Price

$4,195.00
42 CLCs

Methods of Delivery

In-Person ILT
Virtual ILT
Onsite ILT

About this Class

The Implementing and Administering Cisco Solutions (CCNA) v2.2 course teaches you how to install, operate, configure, and verify a basic IPv4 and IPv6 network, configure network components, such as switches, routers, and wireless local area network (LAN) controllers (WLNs), manage network devices, and identify basic security threats. This training also covers the introduction of AI and machine learning (ML) in network operations.
This course helps you prepare to take the 200-301 Cisco® Certified Network Associate (CCNA®) exam. By passing this one exam, you earn the CCNA certification.

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How you will benefit

This class will help you:

- Learn the knowledge and skills to install, configure, and operate a small- to medium-sized network
- Gain a foundation in the essentials of networking, security, and automation
- Prepare for the 200-301 CCNA v1.1 exam
- Earn 30 CE credits toward recertification

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

This course is designed for anyone seeking CCNA certification.

- Entry-level Network Engineers
- Entry-level Network Administrators
- Entry-level Network Support Technicians
- Entry-level Help Desk Technicians

Prerequisistes

Before taking this course, you should have:

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

There are no formal prerequisites for CCNA certification, but you should make sure to have a good understanding of the exam topics.

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Objectives

After taking this course, you should be able to:

- 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
- Explaining the Basics of ACL
- Enabling Internet Connectivity
- Introducing AI and ML in Network Operations
- Introducing System Monitoring
- Managing Cisco Devices

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Cont. Objectives

After taking this course, you should be able to:

- Securing Administrative Access
- Implementing Device Hardening
- Exploring Layer 3 Redundancy
- Introducing WAN Technologies
- Introducing QoS
- Explaining Wireless Fundamentals
- Introducing Architectures and Virtualization
- Explaining Software-Defined Networking
- Introducing Network Programmability
- Examining the Security Threat Landscape
- Implementing Threat Defense Technologies

+1 (219) 764-3800
6210 Central Ave, Portage IN
sales@ctclc.com
www.ctclc.com

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Course Outline

Module 1: Exploring the Functions of Networking
Module 2: Introducing the Host-To-Host Communications Model
Module 3: Operating Cisco IOS Software
Module 4: Introducing LANs
Module 5: Exploring the TCP/IP Link Layer
Module 6: Starting a Switch
Module 7: Introducing the TCP/IP Internet Layer, IPv4 Addressing, and Subnets
Module 8: Explaining the TCP/IP Transport Layer and Application Layer
Module 9: Exploring the Functions of Routing
Module 10: Configuring a Cisco Router
Module 11: Exploring the Packet Delivery Process
Module 12: Troubleshooting a Simple Network
Module 13: Introducing Basic IPv6
Module 14: Configuring Static Routing
Module 15: Implementing VLANs and Trunks
Module 16: Routing Between VLANs
Module 17: Introducing OSPF
Module 18: Building Redundant Switched Topologies
Module 19: Improving Redundant Switched Topologies with EtherChannel •
Module 20: Explaining the Basics of ACL

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Course Outline

Module 21: Enabling Internet Connectivity

Module 22: Introducing AI and ML in Network Operations

Module 23: Introducing System Monitoring

Module 24: Managing Cisco Devices

Module 25: Securing Administrative Access

Module 26: Implementing Device Hardening

Module 27: Exploring Layer 3 Redundancy

Module 28: Introducing WAN Technologies

Module 29: Introducing QoS

Module 30: Explaining Wireless Fundamentals

Module 31: Introducing Architectures and Virtualization

Module 32: Explaining Software-Defined Networking

Module 33: Introducing Network Programmability

Module 34: Examining the Security Threat Landscape

Module 35: Implementing Threat Defense Technologies

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Lab Outline

- Lab 1: Get Started with Cisco CLI
- Lab 2: Observe How a Switch Operates
- Lab 3: Perform Basic Switch Configuration
- Lab 4: Inspect TCP/IP Applications
- Lab 5: Configure an Interface on a Cisco Router
- Lab 6: Configure and Verify Layer 2 Discovery Protocols
- Lab 7: Configure Default Gateway
- Lab 8: Explore Packet Forwarding
- Lab 9: Troubleshoot Switch Media and Port Issues
- Lab 10: Troubleshoot Port Duplex Issues
- Lab 11: Configure Basic IPv6 Connectivity
- Lab 12: Configure and Verify IPv4 Static Routes
- Lab 13: Configure IPv6 Static Routes
- Lab 14: Configure VLANs and Trunks
- Lab 15: Configure Inter-VLAN Routing
- Lab 16: Configure and Verify Single-Area OSPF

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Lab Outline Cont.

- **Lab 17: Configure and Verify EtherChannel**
- **Lab 18: Configure and Verify IPv4 ACLs**
- **Lab 19: Configure a Provider-Assigned IPv4 Address**
- **Lab 20: Configure Static NAT**
- **Lab 21: Configure Dynamic NAT and PAT**
- **Lab 22: Configure and Verify NTP**
- **Lab 23: Create the Cisco IOS Image Backup**
- **Lab 24: Upgrade Cisco IOS Image**
- **Lab 25: Secure Console and Remote Access**
- **Lab 26: Enable and Limit Remote Access Connectivity**
- **Lab 27: Configure and Verify Port Security**
- **Lab 28: Log in to and Monitor the WLC**
- **Lab 29: Configure an Open Wireless Network**
- **Lab 30: Define a RADIUS Server and Enable SNMP and Syslog**
- **Lab 31: Configure a WLAN to Use WPA2 PSK**