



CCNA 200-301

Training Certification



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About the Program

Wissenhive's CCNA 200-301 Certification covers the in-depth foundational networking concepts by testing your knowledge retention with section learning quizzes that pupils need to master to get the career in networking and services jumpstarted, prepare you with the best strategies, study plan and key for passing notoriously difficult CCNA examination. CCNA 200-301 professionals operate at the technical end by ensuring the adequate performance of Network devices, including firewalls, switches, and routers.

This Certification covers fundamentals of the network, IP connectivity, network access, network security fundamentals, IP services, and laying the foundation for network programmability and automation. After taking CCNA 200-301 Certification, individuals can perform any task from Network layer addressing and subnetting to Network troubleshooting with an effective approach.

Key Training Features

-  Ask Questions Real-Time and Interact with the Trainer Live
-  Learner assistance and support - 24x7x365
-  Flexible classes
-  High-quality content created by industry experts
-  Professionally designed Student Training Material
-  High-Quality Audio-Video Lectures
-  Lifetime Training Access
-  Assessments

Training Options

- Self-paced Training
- Live Virtual Classes
- One on One Training

Why CCNA 200-301?

- Higher Paying Opportunities
- Gain Knowledge and Credibility
- Stand Out Among the Ordinary
- Knowledge of CCNA Best Practices
- Better Career Growth & Job Opportunities
- Better ROI with Flexibility
- Sharpen your IT Skillset

What will you learn?

- Network Fundamentals and Network Access
- IP Connectivity and IP Services
- IPv6
- Security Fundamentals and Network Management
- Network Design
- Automation and Programmability
- Cloud Computing

Career Option with Salary Compensation

Network Engineer

- Minimum - \$59,000
- Avg Salary - \$74,000
- Maximum - \$92,000

Network Specialist

- Minimum - \$48,000
- Avg Salary - \$57,000
- Maximum - \$74,000

Network Analyst

- Minimum - \$54,000
- Avg Salary - \$60,000
- Maximum - \$67,000

Network Administrator

- Minimum - \$49,000
- Avg Salary - \$60,000
- Maximum - \$71,000

Network Manager

- Minimum - \$56,000
- Avg Salary - \$87,000
- Maximum - \$99,000

Target Audience

- Engineers
- Junior Network Administrator
- Computer Technician
- Help Desk Technician
- Junior System Engineer
- Network Field Technician
- Network Support Specialist
- Network Field Engineer
- System Engineer
- IS Consultant
- Network Analyst

Prerequisites

There are certainly no prerequisites needed for taking the CCNA 200-301 Certification, which makes it friendly and creates a base for beginners, but Wissenhive recommends having

- Basic computer skills
- Basic understanding of networking

Course Details

Wissenhive's CCNA 200-301 certification course will allow individuals to enhance their networking skills and basic knowledge, differentiating in protocols: TCP, IP, and UDP: IPv4 and IPv6: routers and switches, configuring Cisco IOS routers, OSPF routing protocol, and many more. This certification gives detailed briefs about

- Network layer subnetting and addressing
- Configuring a Cisco Router
- Switch configuration
- Ethernet operation
- Ethernet and STP Channel operation and configuration
- UDP and TCP Operation
- VLAN configuration and operation
- Building, setting, configuring, and troubleshooting ACLs
- Network address translation configuration and operation
- VPN operation and Wide area networking
- Implementing application layer protocols for Cisco networks
- Cisco wireless basic configuration and operation
- Cisco Network basic security concepts
- The basics for network programmability and automation
- Network troubleshooting

Course Curriculum:

1. In-depth understanding

- Packet Tracer Network Simulator

2. Network Access

- VLANs Explained
- Data VLAN and Native VLAN
- Cisco Switching Concepts
- Access Mode Ports
- Voice VLAN and VLAN Fundamentals
- Troubleshooting Switch Inferences
- Static Trunk Mode and Troubleshooting Trunk Interfaces
- EtherChannel (LACP)
- Port Channel
- Spanning Tree Operation
- Rapid Per-VLAN Spanning Tree
- PortFast Enhancement
- Root Bridge Selection
- Spanning Tree Protocol
- Link Layer Discovery Protocol (LLDP)
- Cisco Discovery Protocol (CDP)
- Switching and Multilayer Switching

3. Wireless Infrastructure

- Wireless Architecture and Security
- Autonomous Mode (Single SSID)
- Autonomous Mode (Multiple SSID)
- Cisco Mobility Express Setup

Course Curriculum:

4. IP Addressing

- Network Addressing
- IPv4 Addressing
- Binary Conversion Table
- Classful vs. Classless Addressing
- Network Address Zones
- Subnetting Practice Lab
- IPv6 Addressing Tutorial
- IPv6 Global Unicast Routable
- IPv6 Autoconfiguration (SLAAC)

5. IP Connectivity

- IP Connectivity Fundamentals
- IPv4 Static Routing
- IPv4 Default Route
- IPv4 Floating Static Route
- Troubleshooting Static Routes
- IPv6 Static Routing
- Route Selection
- OSPF Fundamentals
- OSPF Dynamic Routing
- Single-Area OSPFv2
- OSPF Designated Router Election
- Troubleshooting OSPF Timers
- First Hop Redundancy Protocol (FHRP)

Course Curriculum:

6. Security Fundamental

- Cisco IOS Device Hardening
- Enable Password
- Console Port Rack Access
- Enable Secret (MD5)
- Cisco Local Authentication
- Remote Access: VTY Lines
- Secure Shell (SSHv2) Encryption
- DHCP Snooping/DAI
- Switch Port Security
- Security Fundamentals
- Cisco Access Control Lists Explained
- Standard Numbered ACL
- Troubleshooting ACLs
- Access Control Lists
- Cyber Security Fundamentals
- Network Security Zones
- Physical Security Access
- Cisco ASA Perimeter Firewall
- IPsec VPN Tunnel (Site-to-Site)

7. IP Services

- DHCP Network Services
- IOS DHCP Server
- DHCP Services and Domain Name Services (DNS)
- Network Address Translation
- Static NAT Implementation
- Port Address Translation
- Cisco IP Phone QoS
- QoS Per-Hop Behavior

Course Curriculum:

8. Systems Management and Automation

- Managing Layer 2 Switches
- Network Monitoring Protocols
- Loopback Management Interface
- Management Protocols
- TFTP Server
- Automation and Cisco DNA Center
- Network Automation

Contact us

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If you have any further questions or would like to chat with us, give us a call

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