



Cisco® Solutions: Implementation and Administration

Course Code: CCNA 200-301

Duration: 5 days

About this course

The Cisco® Solutions: Implementation and Administration (CCNA 200-301) course builds on your existing user-level knowledge and experience with computing and networking to provide you with the knowledge and skills expected of an entry-level network administrator. It also addresses the content described in the exam objectives for the Certified Cisco Network Administrator (CCNA® 200-301). If you are pursuing a Cisco technical certification path, the CCNA 200.301 exam is your first step into the world of Cisco certification.

Audience profile

This course is designed for individuals who have end-user computer skills and some level of IT experience or technology aptitude, who are seeking an IT career in supporting Cisco® technologies, and who need training on networking fundamentals, IP connectivity and services, security fundamentals, and the basics of automation and programmability, all in the context of a Cisco environment.

This course is also designed for students who are seeking the Cisco® Certified Network Associate (CCNA®) certification and who want to prepare for CCNA Exam v1.0 (200-301).

At course completion

In this course, you will implement and administer networks by using Cisco solutions.

You will:

- Explain basic concepts related to networking.
- Configure switching.
- Configure IP addressing.
- Configure routing.
- Configure wireless connectivity.
- Configure IP network services.
- Explain basic network security concepts and practices.
- Explain the use of automation and programmability in network management tasks.
- Troubleshoot common network issues.

Prerequisites

To ensure your success in this course, you should have experience with computer user skills, including the ability to complete tasks in a Microsoft Windows environment and the ability to search for and access information on the

Internet. You can obtain this level of skill and knowledge by taking one of the following Logical Operations courses:

- Introduction to Personal Computers Using Microsoft® Windows® 10
- Using Microsoft® Windows® 10
- Microsoft® Windows® 10: Transition from Windows® 7

You should also have intermediate knowledge of computing and networking concepts. Any type of technology or system administration training or certification, or experience working in an IT environment, is strongly recommended. For





instance, other industry certifications such as CompTIA®'s ITF+®, A+®, or Network+® may be especially helpful for students who are preparing for the CCNA 200-301 exam.

Course Outline

Lesson 1: Networking Fundamentals	Lesson 2: Configuring Switching
Topic A: Network Types	Topic A: Switching Concepts
Topic B: Network Components	Topic B: Configure Basic Switch Operation
Topic C: Network Topologies	Topic C: Configure VLANs
Topic D: Network Models	Topic D: Configure Interswitch Connectivity
Topic E: Basic Networking Protocols	
Topic F: Transmission Media and Connectors	
Topic G: Introduction to Cisco Networks and Cisco IOS Commands	
Lesson 3: Configuring IP Addressing	Lesson 4: Configuring Routing
Topic A: Configure IPv4 Addresses	Topic A: Routing Basics
Topic B: Configure IPv4 Subnets	Topic B: Interpret Routing Tables
Topic C: Configure IPv6 Addresses	Topic C: Configure Static Routing
Topic D: Manage Network Addressing	Topic D: Configure Dynamic Routing
Lesson 5: Configuring Wireless Connectivity	Lesson 6: Configuring IP Network Services
Topic A: Wireless LANs	Topic A: IP Network Services
Topic B: Manage WLAN Connections	Topic B: Configure DHCP
Topic C: Configure Clients for WLAN Access	Topic C: Configure NAT
	Topic D: Configure NTP
	Topic E: Configure DNS
Lesson 7: Security Fundamentals	Topic F: Perform Network Management Lesson 8: Automation and Programmability
Topic A: Security Concepts	Topic A: Automation, Network Management, and Device
Topic B: Manage Passwords	Management
Topic C: Configure Layer 2 Security	Topic B: Controller-Based Networking and Software-
Topic D: Configure Wireless Security Topic E: Remote Access Security	Defined Networking
	Topic C: Programmability Concepts
Lesson 9: Troubleshooting Network Issues	
Topic A: Troubleshooting Methodologies	
Topic B: Troubleshoot Interface and Cable Issues	
Topic C: Troubleshoot Switching Issues	
Topic D: Troubleshoot IPv4 and IPv6 Addressing Issues	
Topic E: Troubleshoot Routing Issues	
Topic F: Troubleshoot WLAN Issues	
Topic G: Troubleshoot Network Services Issues	





Topic H: Troubleshoot Network Management Issues

Topic I: Troubleshoot Security Issues

Contacts us:

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