Cisco Implementing and Administering Cisco Solution (CCNA)

Category: Networking & Security | **Vendor:** Cisco

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Cisco Certified Network Associate (CCNA)
Related Exam:	200-301

Course Overview

This looks like just another CCNA course. But hidden inside is a complete transformation system that teaches you to think like a network architect, not just a configuration technician. You'll learn to integrate AI, automation, and cloud technologies into network operations. Plus, you'll master security fundamentals across IP addressing, routing, wireless LANs, and switching, all using Cisco's industry-leading best practices. Which means instead of just passing an exam, you'll develop the strategic thinking across network fundamentals that makes you indispensable. This 5-day intensive program doesn't just prepare you for the globally recognized certification that consistently tops IT lists; it prepares you for career advancement by teaching you to install, configure, and troubleshoot modern networks like a true professional.

About This Course

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Who Should Attend

This training is ideal for:

- Entry-level Network Engineers and Administrators
- IT Support Technicians and Help Desk staff
- Systems Administrators transitioning into networking
- Aspiring Cisco Certified professionals

It's also recommended for those who need foundational networking skills to support Cisco infrastructure, even if certification isn't their goal.

Prerequisites & Entry Requirements

General Prerequisites:

- Basic computer literacy
- Basic PC operating system navigation skills
- Basic Internet usage skills

Learning Outcomes

Upon successful completion of this course, participants will be able to:

By the end of this course, you'll be able to configure, monitor, and secure Cisco-based networks and be well-prepared for the Cisco 200-301 CCNA certification exam. You will learn to: Understand Core Networking Concepts: Identify network components, explain host-to-host communication, and describe the functions of Cisco IOS, LANs, switches, TCP/IP layers, IPv4, and IPv6. Configure and Troubleshoot Network Devices: Install and set up Cisco routers and switches, configure VLANs, static routing, inter-VLAN routing, and troubleshoot common network and addressing issues. Explore Advanced Networking Technologies: Understand dynamic routing protocols like OSPF, spanning tree protocols, Layer 3 redundancy, EtherChannel, WAN/VPN fundamentals, and wireless LAN controllers. Implement Network Security and Access Control: Apply basic security configurations, configure ACLs, NAT, and DHCP, and explore device hardening and management practices to protect network infrastructure. Gain Exposure to Modern Networking Trends: Learn the basics of QoS, software-defined networking, network programmability, virtualization, and the roles of AI and machine learning in modern network operations. Explain how spanning tree protocol (STP) and rapid spanning tree protocol (RSTP) work.

Detailed Course Outline

Networking Foundations

- Core functions and goals of networking
- Host-to-host communication models
- Overview of local area networks (LANs)
- Understanding the TCP/IP link layer
- Internet layer, IPv4 addressing, and subnetting
- Transport and application layer fundamentals
- Introduction to routing concepts
- How data travels across a network

Cisco Device Essentials

- Navigating and operating Cisco IOS
- Powering up and configuring switches
- Basic router configuration
- Troubleshooting small networks
- Managing Cisco network devices

IP Addressing & Routing

- Fundamentals of IPv6
- Setting up static routes
- Understanding OSPF (Open Shortest Path First)
- Layer 3 redundancy and failover strategies

Switching & VLAN Implementation

- Creating and managing VLANs and trunks
- Inter-VLAN routing techniques
- Redundant switched topologies
- Enhancing redundancy with EtherChannel

Access Control & Device Security

- Introduction to access control lists (ACLs)
- Securing administrative access
- Applying device hardening best practices
- Monitoring system performance
- Device management and maintenance

Connectivity & Network Services

- Establishing internet connectivity
- WAN technology fundamentals
- Introduction to Quality of Service (QoS)
- Wireless networking basics

Modern Network Architecture

- Virtualization and modern network designs
- Software-defined networking (SDN) principles
- Network programmability concepts
- Integrating AI and machine learning into network operations

Security Awareness

- Understanding today’s threat landscape
- Deploying threat defense technologies

□□ Certification Path

Cisco Certified Network Associate (CCNA)

Exam: 200-301

Upcoming Schedule

Available training dates for Cisco Implementing and Administering Cisco Solution (CCNA):

Start Date	End Date	Location	Delivery	Price
30 Nov 2026	04 Dec 2026	Online	Virtual	€4,195.00
14 Dec 2026	18 Dec 2026	Online	Virtual	€4,195.00
04 Jan 2027	08 Jan 2027	Online	Virtual	€4,195.00
12 Apr 2027	16 Apr 2027	Virtual Classroom - Link will be sent 7 days before the course	Virtual	€2,495.00
13 Sep 2027	17 Sep 2027	Virtual Classroom - Link will be sent 7 days before the course	Virtual	€2,495.00

Frequently Asked Questions

Q: What delivery options are available for Cisco Implementing and Administering Cisco Solution (CCNA)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The Cisco Implementing and Administering Cisco Solution (CCNA) course helps prepare you for the Cisco Certified Network Associate (CCNA) certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the 200-301 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 5-day Cisco Implementing and Administering Cisco Solution (CCNA) course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Cisco Implementing and Administering Cisco Solution (CCNA) training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Cisco Implementing and Administering Cisco Solution (CCNA)?

Yes, we provide corporate training, dedicated training, and closed classes for Cisco Implementing and Administering Cisco Solution (CCNA). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Cisco Implementing and Administering Cisco Solution (CCNA)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Cisco Implementing and Administering Cisco Solution (CCNA) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

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