

Cisco Certified Network Associate (CCNA) Training Course

The Cisco Certified Network Associate (CCNA) course provides foundational networking knowledge and skills, preparing you for managing and optimizing advanced network solutions.

NET-200

Course Outcomes

Professional, practical, & hands-on live instructor-led training

Further your skills and graduate as a certified professional, with the skills, experience, and job-search know how to get your career started.

 Start Today

Potential Career Tracks

Network Administrator

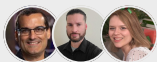
Network Engineer

IT Help Desk Technician

Systems Administrator

Telecommunications Engineer

Network Support Specialist



Taught by Industry Veterans &
World Class Instructors

Introduction to Cisco Certified Network Associate (CCNA)

Course Overview

Intellectual Point's Cisco Certified Network Associate (CCNA) Training Course is meticulously crafted to provide you with a robust understanding of networking fundamentals, effectively gearing you up for the CCNA certification exam. This course delivers a thorough dive into essential networking topics such as network access, IP services, IP connectivity, security fundamentals, and automation. Through a blend of theoretical knowledge and practical exercises, you'll develop the proficiency required to install, configure, and troubleshoot various kinds of networks. By the program's conclusion, you'll be fully prepared to pass the CCNA exam and apply your networking skills in real-world scenarios with confidence.

Throughout the training, you'll explore the configuration, management, and troubleshooting of network devices, including routers and switches, to ensure optimal performance. The course integrates interactive labs and activities to reinforce key concepts and enhance your practical abilities in executing network management tasks. By the end of the training, you will be skilled in implementing basic security practices and have a grasp of emerging networking technologies relevant to today's IT environments.

Obtainable Skills

IP Addressing and Subnetting

Network Protocols Configuration

Basic Security Modelling

Routing and Switching Fundamentals

Wireless LAN Implementation

CCNA Exam Preparation

Automation and Programmability

Network Device Troubleshooting

Course Insights

Audience Profile

The CCNA Training Course is tailored for aspiring network engineers, IT support professionals, and students with a foundational understanding of computers who wish to advance their knowledge in networking. It is ideally suited for individuals who are just entering the field of networking or those seeking to solidify their skills with validated Cisco knowledge. Professionals who wish to shift their careers towards networking infrastructure or those interested in obtaining an industry-recognized certification are the perfect candidates for this course.

Course Outcomes

By the end of this course, participants will:

1 Gain a comprehensive understanding of networking principles and practices.

2 Develop proficiency in configuring and managing Cisco routers and switches.

3 Acquire skills to troubleshoot network issues and optimize network performance.

4 Implement basic security measures to protect network infrastructure.

5 Be well-prepared to successfully pass the CCNA certification exam.

Module by Module Learning *Outline*

 6 Modules

Module 1: Networking Fundamentals

Learning Objectives:

- Understand core networking principles and architectures.
- Differentiate between various networking models and technologies.

Topics Covered

Introduction to Networking:

- OSI and TCP/IP models.
- Fundamentals of network topologies and types.

IP Addressing and Subnetting:

- Understanding IPv4 and IPv6 addressing schemes.
- Calculating and implementing subnet masks.

Module 2: Network Access

Learning Objectives:

- Grasp the concepts of switching and access layer networking.
- Learn to configure and manage basic network devices.

Topics Covered

Switching Concepts:

- Functions and operations of network switches.
- VLANs and trunking protocols.

Configuring Cisco Switches:

- Initial configuration tasks for switches.
- Securing access to the console and VTY lines.

Module 3: IP Connectivity

Learning Objectives:

- Develop skills in routing protocols and IP connectivity solutions.
- Configure and verify router functionalities and operations.

Topics Covered

Routing Fundamentals:

- Static vs dynamic routing overview.
- Introduction to routing protocols like OSPF and EIGRP

Configuring Cisco Routers:

- Basic router setup steps.
- Implementing routing protocols in network topologies.

Module 4: IP Services

Learning Objectives:

- Learn to implement various IP services in network environments.
- Understand the application and verification of network services.

Topics Covered

DHCP and DNS Operations:

- Configuration and management of DHCP server.
- DNS functions and its role in networks.

NAT and PAT Implementation:

- Configure Network Address Translation (NAT).
- Understanding Port Address Translation (PAT).

Module 5: Security Fundamentals

Learning Objectives:

- Implement basic security mechanisms for network protection.
- Develop skills necessary to secure network devices.

Topics Covered

Network Security Concepts:

- Introduction to fundamental security protocols.
- Protecting network assets with ACLs.

Securing Network Devices:

- Applying basic security settings on routers and switches.
- Introduction to VPN and encryption technologies.

Module 6: CCNA Exam Preparation

Learning Objectives:

- Review key concepts and practical exercises to ensure preparedness for the CCNA exam.
- Develop effective strategies for approaching and passing the certification exam.

Topics Covered

Comprehensive Review:

- Consolidation of networking, security, and automation topics.
- Practice exams and assessment tools for self-evaluation.

Exam Taking Techniques:

- Time management and question analysis skills.
- Resources and tips for the exam day experience.