

CCNA - CISCO Certified Network Associate

Course Description & Overview

SecureNinja's Cisco Certified Network Associate certification training provides a comprehensive foundation in networking concepts, security principles, and automation techniques. This course is designed to equip IT professionals with the skills needed to install, configure, operate, and troubleshoot small to medium-sized enterprise networks. Participants will gain hands-on experience working with Cisco routers and switches, developing a deep understanding of network fundamentals, security best practices, and automation workflows.

With the increasing demand for networking professionals, this training serves as an essential stepping stone for those looking to establish a career in networking. The course covers a wide range of topics, including network access, IP connectivity, security fundamentals, and wireless networking, ensuring that learners acquire the expertise necessary to manage modern enterprise infrastructures. By the end of the course, participants will be prepared to take the CCNA Implementing and Administering Cisco Solutions v2.0 exam.

Why Choose Cisco Implementing and Administering Cisco Solutions v2

- **Industry-Recognized Certification:** Demonstrates proficiency in networking and infrastructure management.
- **Hands-On Training:** Includes practical labs and real-world network configuration exercises.
- **Comprehensive Curriculum:** Covers routing, switching, security, automation, and troubleshooting.
- **Career Advancement:** Opens opportunities in network administration, IT security, and cloud networking roles.

Topics Covered

- **Networking Fundamentals:** Understanding network models, protocols, and architectures.
- **IP Connectivity:** Configuring routing protocols such as OSPF and static routing.
- **Network Access:** Implementing VLANs, trunking, and wireless networking.
- **Security Fundamentals:** Securing networks with access control lists (ACLs) and authentication methods.
- **Automation and Programmability:** Introduction to software-defined networking (SDN) and Cisco automation tools.
- **Troubleshooting:** Diagnosing and resolving network performance and connectivity issues.

Who is it for

- **Network Administrators:** Professionals responsible for maintaining and troubleshooting networks.
- **IT Support Technicians:** Individuals providing technical assistance and network support.
- **Help Desk Professionals:** Those who assist in diagnosing and resolving network-related issues.
- **System Engineers:** IT specialists managing network infrastructure and system configurations.

Who Would Benefit

- **Aspiring Network Engineers:** Individuals looking to establish a career in network administration.
- **Cybersecurity Professionals:** Those needing a strong foundation in network security.
- **IT Managers:** Professionals overseeing enterprise network and IT teams.

Prerequisites

No formal prerequisites are required, but a basic understanding of networking concepts and experience with operating systems is recommended.

Course Outline

1. Module 1: Introduction to Networking

- Overview of networking concepts and architectures.
- Understanding protocols, IP addressing, and subnetting.

2. Module 2: Network Access

- Configuring VLANs, trunking, and network segmentation.
- Wireless networking fundamentals and security considerations.

3. Module 3: IP Connectivity

- Implementing static and dynamic routing.
- Configuring OSPF and troubleshooting connectivity issues.

4. Module 4: Security Fundamentals

- Understanding authentication, authorization, and access control.
- Implementing firewall rules and intrusion detection measures.

5. Module 5: Automation and Programmability

- Introduction to network automation and scripting.
- Exploring Cisco's software-defined networking solutions.

Course Length

- 5 Days
- 40 Hours

Exam Details

Implementing and Administering Cisco Solutions (200-301 CCNA) v2.0

- Number of Questions: 100-120
- Question Types: Multiple-choice and simulation-based questions.
- Duration: 120 minutes
- Passing Score: 825 on a scale of 1000

The Cisco Certified Network Associate certification is an essential credential for IT professionals aiming to build expertise in networking. This course provides hands-on training and real-world scenarios to ensure learners are fully prepared to take the CCNA exam and apply their skills in enterprise networking environments.