



*Training Course:
CCNA Cisco Certified Network Associate*

*26 - 30 January 2025
Cairo (Egypt)
Holiday Inn & Suites Cairo Maadi, an IHG Hotel*

Training Course: CCNA Cisco Certified Network Associate

Training Course code: IT234831 From: 26 - 30 January 2025 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 3875 € Euro

Introduction

CCNA certification proves you have what it takes to navigate the ever-changing landscape of IT. CCNA exam covers networking fundamentals, IP services, security fundamentals, automation, and programmability. Designed for agility and versatility, CCNA validates that you have the skills required to manage and optimize today's most advanced networks.

The CCNA training course and exam give you the foundation to take your career in any direction. When you certify with Cisco, you are living proof of the standard and rigor that businesses recognize and trust to meet and exceed market demands.

Course Objectives

After taking this course, you should be able to:

- Identify the components of a computer network and explain their basic characteristics
- Describe the features and functions of the Cisco IOS Software
- Explain IPv4 and IPv6 addressing scheme
- Implement basic configurations on a Cisco router
- Identify and resolve common switching and routing networking issues
- Describe network and device architectures and explain virtualization
- Describe the smart network management solutions like Cisco DNA Center, SD-Access and SD-WAN
- Outline threat defense technologies
- And many, many more aspects of a basic IPv4 and IPv6 network

Target Audience

- Entry-level network engineer
- Network administrator
- Network support technician
- Help desk technician

Course Prerequisites

Before taking this course, you should have:

- Basic computer literacy
- Basic PC operating system navigation skills
- Basic Internet usage skills
- Basic IP address knowledge
- There are no formal prerequisites for CCNA certification, but you should make sure to have a good understanding of the exam topics.

Course content

A Brief History of Moving Information

- Introduction
- What Is Networking?

Dissecting Communication

- Introduction
- Local and Global Addressing
- Protocols and Communication Models
- Summary

Network Communication Models

- Introduction
- Categorizing Data Transmissions
- The OSI Model
- OSI Model vs. TCP/IP Model
- Summary

Encapsulation

- Introduction
- Examining the OSI Model

- How Encapsulation Works

Data Networks and Addressing

- Addressing the Network
- How Local Communication Works
- How Global Addressing Works
- IP Networks
- Demo: Examining the IP Address of a Workstation
- Demo: Examining Ping
- Demo: ipconfig /all and Pinging a Device Outside Our Network
- Demo: Changing the IP Address on Our Workstation

Cisco Certifications

- Introduction
- Cisco Certification Levels
- Exams Required
- Studying for the CCNA and Lab Equipment

Registration form on the Training Course: CCNA Cisco Certified Network Associate

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