

# Implementing and Administering Cisco Solutions v2.1

COURSE CODE: CCNA Modular

PRICE: **\$4195** | DURATION: **10 WEEKS** | FORMAT: **Kit & Lab** | CE: **30**

## Course Description

The Implementing and Administering Cisco Solutions (CCNA) course provides a broad range of foundational knowledge for all IT careers. Through lectures and hands-on labs, you will learn how to install, operate, configure, and verify basic IPv4 and IPv6 networks. You'll work with network components such as switches, routers, and Wireless LAN Controllers, manage network devices, and identify basic security threats.

Version 2.1 introduces key advancements in network programmability, automation, and the integration of AI/ML in network operations. It also prepares you to take the 200-301 Cisco® Certified Network Associate (CCNA®) exam—passing this single exam earns you the CCNA certification

This course also awards 30 Continuing Education (CE) credits towards recertification.

**Note:** Students can retake any non-lab session from any series within one year of purchase, offering flexibility and reinforcement of key topics.

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## Why CCNA Modular?

The CCNA Modular format takes the standard 5-day Cisco authorized course and breaks it down into expert-led 4-hour sessions delivered over 10 weeks, including hands-on lab practice. This approach allows students to digest the material in smaller chunks, increasing retention and minimizing overwhelm.

## Benefits

- Short, 4-hour sessions make it easy to consume and review content weekly.
- Flexible entry point – join any non-lab session and focus on what matters to you.
- Learn at a manageable pace that better supports long-term retention.
- Extended format encourages practical application between sessions.
- Access to a single point of contact for support throughout the series.
- Live, instructor-led sessions with expert guidance.
- Prepares you with the knowledge and confidence to take the CCNA exam.
- Learn alongside a motivated cohort with a dedicated instructor.

## Who Should Attend?

This series is designed for those new to networking or preparing for the CCNA exam. Ideal job roles include:

- Entry-level Network Engineers
- Network Administrators
- Network Support Technicians
- Help Desk Technicians

## Course Features

- Live instructor-led virtual training
- Hands-on lab practice
- 10 consecutive weekly sessions
- Cisco-certified instructors

## CCNA Modular Schedule

### Session 1 – Introduction to Networking and Host Communication (recommended for starting)

- Functions of Networking
- Host-to-Host Communications Model
- Operating Cisco IOS Software
- Introducing LANs
- Exploring TCP/IP Link Layer

### Session 2 – Introduction to Switches and Routers (recommended for starting)

- Starting a Switch
- IPv4 Addressing and Subnets
- TCP/IP Transport & Application Layers
- Routing Basics
- Cisco Router Configuration

### Session 3 – Lab

- Intro to Cisco CLI
- Basic Switch Configuration
- TCP/IP Application Inspection
- Router Interface Setup
- Layer 2 Discovery Protocols

### Session 4 – Packet Delivery, Troubleshooting, IPv6 & Static Routing (recommended for starting)

- Packet Delivery Process
- Network Troubleshooting
- Introduction to IPv6
- Static Routing Configuration

### Session 5 – Lab

- Default Gateway Configuration
- IPv4/IPv6 Static Routes
- Troubleshooting Media, Ports & Duplex
- Packet Forwarding Exploration

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### **Session 6 – VLANs, Dynamic Routing & Redundancy (recommended for starting)**

- VLANs & Trunking
- Inter-VLAN Routing
- Intro to OSPF
- Redundant Topologies & EtherChannel

### **Session 7 – Lab**

- VLAN & Trunk Setup
- Inter-VLAN Routing
- Single-Area OSPF
- EtherChannel Configuration

### **Session 8 – ACLs & Internet Connectivity (recommended for starting)**

- ACL Basics
- Enabling Internet Access
- IPv4 ACLs
- Static NAT, Dynamic NAT & PAT

### **Session 9 – Operations: Monitoring & Management (recommended for starting)**

- AI/ML in Network Operations
- System Monitoring
- Cisco Device Management
- Cisco DNA Center, NTP, IOS Backup & Upgrade

### **Session 10 – Device & Network Security + Exam Prep (recommended for starting)**

- Securing Access & Device Hardening
- Remote Access & Port Security
- CCNA Exam Prep: tips, tools & expectations