

# **Cisco CCENT/CCNA Interconnecting Cisco Networking Devices Part 1 (ICND1)**

**Modality:** On Demand

**Duration:** 18 Hours

***This course prepares you for the 100-105 ICND1 Exam leading to 100-105 ICND1 Certification. This course does not include the **Official Exam Voucher**, however, you can request to purchase the Official Exam Voucher separately.***

## **About this course:**

This course will enable students to understand QoS, virtualization and cloud services, and network programmability related to WAN, access and core segments. It will provide the foundational understanding of network layers 1-3 that are applicable to core routing and switching plus other advanced technologies. Several topics have been added including; understanding the interactions and network functions of firewalls, wireless controllers and access points, along with additional focus on IPv6 and basic network security. The configuration commands are introduced through examples and supported with lab exercises. A full suite of labs have been developed using the virtual IOS environment with flexible topologies that reinforce concepts with hands-on, guided discovery and challenge labs that align to each lesson module. This course also prepares the students for the [Cisco: ICND1 Exam](#)

The average salary for a Cisco Certified Network Administrator is **\$84,000** per year.

## **Course Objectives:**

After completing this course, students will be able to:

- Describe network fundamentals and build simple LANs
- Establish Internet connectivity
- Manage network device security
- Expand small to medium sized networks with WAN connectivity
- Describe IPv6 basics

## **Audience:**

This course is intended for:

- Network Specialists
- Network Administrators
- Network Support Engineers
- Cisco Channel Partners

## **Prerequisites:**

Learners should be familiar with:

- Basic computer literacy Basic Internet usage skills
- Basic PC operating system navigation skills
- Basic IP address knowledge

### **Suggested prerequisites courses:**

- [Cisco CCNA Interconnecting Cisco Networking Devices Part 2 \(ICND2\)](#)

### **Course Outline:**

- **Course Introduction**
- Module 01 - Building a Simple Network
- Module 02 - Establishing Internet Connectivity
- Module 03 - Managing Network Device Security
- Module 04 - Building a Medium-Sized Network
- Module 05 - Introducing IPv6
- Course Conclusion