

# **Interconnecting Cisco Networking Devices, Part 1 - On Demand (ICND1 3.0)**

**Modality: On Demand**

**Duration: 40 Hours**

**CLC: 8 Units**

*This course is for professionals planning to enroll in the 100-105 ICND3 Exam leading to the 100-105 ICND3 Certification. The official exam voucher is not included in this course. However, the official exam voucher can be purchased separately on request.*

## **About this Course:**

This primary objective of this course is to help candidates develop the substantial skills and conceptual knowledge of WAN Network Programmability, Quality of Service, Virtualization, and Cloud Services. The teachings of this course focus on network layers from 1 to 3 and describe its applications in routing and switching and its integration with advanced networking technologies.

This course covers the key concepts relating to Access Points & Wireless Controllers, Firewall Interactions & Network Functions, Network Security, and IPv6 Essentials & Fundamentals. The topics such as Core Segmentation and Access are also discussed comprehensively in this course. Furthermore, this course encompasses practical labs and exercises for nurturing configuration command skills and working with flexible topologies. Practical and Challenge Labs are linked with each teaching module and students get to develop the hands-on experience of such a networking setting. This course aims to train and prepare students for excellence & success in Cisco: ICND1 Exam.

## **Course Objectives:**

The core objective of this course is to help professionals develop a better understanding and sound knowledge of the following key concepts:

- Fundamentals of IPv6
- Internet Connectivity Establishment
- Networking System Fundamentals & Essentials
- Development of Basic Local Area Networks
- Security Management of Networking Devices
- Expansion of Small to Intermediate Networks Using Wide Area Network Connectivity

## **Audience:**

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

## Prerequisites:

Professionals planning to enroll in the Interconnecting Cisco Networking Devices, Part 1 - On-Demand (ICND1 3.0) course must comply with the following prerequisites:

- Basic Understanding and Fundamental Knowledge of working with Computers
- Basic Skills and Knowledge of using Internet
- Conceptual Understanding of IP Addresses
- Familiarity with Navigation Systems Within the Operating Systems of PC

## Course Outline:

- **Module 1: Building a Simple Network**
- **Module 2: Establishing Internet Connectivity**
- **Module 3: Summary Challenge**
- **Module 4: Building a Medium-Sized Network**
- **Module 5: Network Device Management and Security**
- **Module 6: Summary Challenge**
- **Module 7: Introducing IPv6**