



# COMPLETE COMPUTING, INC.

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## Cisco ICND Bootcamp

**Length :**

Classroom Learning - 5 Days

**Overview :**

Accelerated course for CCENT and CCNA Certification

Cisco CCNA certification is attained by passing a Cisco CCNA exam. The content of this certification is spread over 2 Cisco classes namely:

- a) *Interconnecting Cisco Networking Devices I (ICND1) – 5 days*
- b) *Interconnecting Cisco Networking Devices II (ICND2) – 5 days*

The proposed CCNA training will contain the important sections from ICND1 and ICND2 sections with a special attention to the certification.

The class times will be from 9am – 6pm each day. There will additional hours on some days.

## Outline :

**Lesson 1:** Building a Simple Serial Network

Exploring the Functions of Networking Using a PC on a Network Understanding the OSI Model

**Lesson 2:** Building a Simple Ethernet Network

Defining a LAN Understanding How an Ethernet LAN Works Connecting to an Ethernet LAN

**Lesson 3:** Growing the Network

Choosing the Right Network Topology Understanding the Challenges of Shared LANs Solving Network Challenges with Switched LAN Technology Maximizing the Benefits of Switching

**Lesson 4:** Connecting Networks

Understanding How TCP/IP Works Exploring the IP Packet Delivery Process Understanding How IP Address Protocols Work Exploring the Functions of Routing



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## **Lesson 5: Constructing Network Addresses**

Understanding Binary Basics Classifying Network Addressing Constructing a Network Addressing Scheme Calculating Subnet Masks

## **Lesson 6: IP Ensuring the Reliability of Data Delivery**

Understanding How UDP and TCP Work Establishing a TCP Connection

## **Lesson 7: Connecting to Remote Networks**

Understanding WAN Technologies Using Dedicated Connections for WANs Using Circuit Switching in WANs Using Packet Switching in WANs

## **Lesson 8: Operating and Configuring Cisco IOS Devices**

Operating Cisco IOS Software Starting a Switch Starting a Router Configuring a Router

## **Lesson 9: Managing Your Network Environment**

Discovering Neighbors on the Network Getting Information About Remote Devices Router Startup and Configuration Management Managing Cisco Devices

## **Lesson 10: Configuring Catalyst Switch Operations**

Basic Layer 2 Switching and Bridging Functions Redundant Topology Overview Spanning-Tree Protocol Overview Configuring a Catalyst Switch

## **Lesson 11: Determining IP Routes**

Routing Overview Distance Vector Routing Link-State and Balanced Hybrid Routing Enabling RIP Enabling IGRP Enabling EIGRP Enabling OSPF Variable-Length Subnet Masks

## **Lesson 12: Managing IP Traffic with Access Lists**

Access Lists and Their Applications Configuring IP Access Lists Scaling the Network with NAT and PAT

## **Lesson 13: Establishing Serial Point-to-Point Connections**

Wide-Area Networking Review Configuring Serial Point-to-Point Encapsulation

## **Lesson 14: Establishing Frame Relay Connections**

Frame Relay Overview Configuring Frame Relay

## **Lesson 15: Completing ISDN Calls**

Configuring ISDN BRI and PRI Configuring Dial-on-Demand Routing