



BUILDING TRAINING SOLUTIONS
FOR THE IT WORLD

Interconnecting Cisco Network Devices Part 1 (ICND1) Version 2.3 - Certified

Days: 5
Format: Instructor-Led
Class Code: ICND1
Certification Exams: 640-822
Certification Track: CCNA

Recommended Course Sequence

Knowledge of prerequisites
noted below.

*Course content is subject to change
without notice.*

Course Description:

This five-day ICND 1 or ICND Part 1 is the first part in the two-part updated Cisco ICND curriculum. In this comprehensive five-day course students will gain an understanding of the operation of modern TCP/IP networks built with Cisco hardware. Learn the commands and techniques used to troubleshoot host connections, interact with Cisco switches and routers, backup and restore configuration files, and manage network equipment.

Target Student:

ICND Part 1 helps students prepare for

- ICND 1 exam (#640-822).

Passing the ICND 1 exam earns students the CCENT certification and is a step towards CCNA certification.

Prerequisites:

To fully benefit from this course, learners should have the following prerequisite skills and knowledge:

- Basic computer literacy.
- Basic Windows navigation skills.
- Basic Internet usage skills.
- Basic e-mail usage skills.

Delivery Method:

Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

At Course Completion:

After completing this course, students will be able to:

- Describe how networks function, identify major components, function of network components, and the Open System Interconnection (OSI) reference model.
- Using the host-to-host packet delivery process, describe issues related to increasing traffic on an Ethernet LAN and identify switched LAN technology solutions to Ethernet networking issues.
- Describe the reasons for extending the reach of a LAN and the methods that can be used with a focus on RF wireless access.
- Describe the reasons for connecting networks with routers and how routed networks transmit data through networks using TCP/IP.
- Describe the function of Wide Area Networks (WANs), the major devices of WANs, and configure PPP encapsulation, static and dynamic routing, PAT and RIP routing.
- Use the command-line interface to discover neighbors on the network and manage the routers' startup and configuration.

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Course Outline

Lessons
<ul style="list-style-type: none">■ Course Introduction.■ Building a Simple Network.■ Ethernet Local Area Networks (LANs).■ Wireless Local Area Networks (WLANs).■ Local Area Networks Connections.■ Wide Area Networks.■ Network Environment Management.■ Capstone Lab: Re-Configuring the Branch Network .