

Course Description: The CCNA Bootcamp (CCNA v1.0) is an instructor-led five-day course focusing on learning job tasks, skills and knowledge expected of a CCNA. CCNA v1.0 combines the course curriculum of the, new for mid-2007, ICND1 and ICND2 instructor-led courses into one, intense, week-long course.

The ideal candidate would be someone who has worked in a data network environment (PC support/helpdesk or network operations/monitoring), and has had hands-on experience, though no formal training, with Cisco IOS devices. This Bootcamp will serve to review and expand on what the candidate already knows and add to it, the detailed configuration and implementation of Cisco IOS devices.

Prospective CCNA v1.0 students should prepare themselves for course days consisting of at least 10 hours and as long as 12 hours. Homework will be assigned and reviewed daily.

Those new to networking and to Cisco IOS should consider taking the ICND1 and ICND2 classes instead of CCNA v1.0.

For those wanting to make the most of this bootcamp, we recommended you prepare for this course by accessing the Network Fundamentals content available within the Cisco Learning Connection at Cisco's website.

Who Should Attend: The primary audience for this course includes Network Administrators, Network Engineers, Network Managers, and Systems Engineers. The secondary audience for this course includes Network Designers and Project Managers.

Prerequisites: Students should have basic computer literacy, Windows navigation skills, internet usage skills and e-mail usage skills. They should also have hands-on experience with Cisco IOS devices and basic skills with connectivity configuration of routers and switches.

Benefits of Attendance: Upon completion of this course, students will be able to:

- Describe how networks function, identifying major components function of network components and the Open System Interconnection (OSI) reference model
- 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 managing the router's startup and configuration
- Expand the switched network from a small LAN to a medium-sized LAN with multiple switches, supporting VLANs, trunking and the spanning tree protocol (STP)
- Describe routing concepts as they apply to a medium-sized network and discuss considerations when implementing routing on the network
- Configure, verify and troubleshoot OSPF
- Configure, verify and troubleshoot EIGRP

Course Outline:

Course Introduction

Building a Simple Network

Ethernet Local Area Networks (LANs)

Wireless LANs

LAN Connections

WANs

Network Environment Management

Small Network Implementation

Medium-Sized Switched Network Construction

Medium-Sized Routed Network Construction

Single Area OSPF Implementation

EIGRP Implementation

Access Control Lists

Address Space Management

LAN Extensions into a WAN

Lab Guide