

## **CCNA Boot Camp v2.0 (ICND Part 1 and ICND Part 2) (CCNA) Course Summary**

### **Description**

This course is a combination of the Cisco Certified ICND1 (five days) and the ICND2 (five days) course knowledge required to prepare for the CCNA Certification into a boot camp. Topics covered include security, troubleshooting, and basic wireless labs with more time devoted to performance-based skills with 30% - 50% of each course dedicated to hands-on labs. The CCNA Certification will validate the ability to install, operate, and troubleshoot a secure, medium-size enterprise network. The Certification will prepare students for careers in networking and provide a solid foundation for deeper study and specialized training. Candidates for this Certification include network engineers, technicians, architects, system engineers, system administrators, and telecommunication specialists. Networking experience is imperative to receive the full benefit of this course. Additional experience with routing and switching is desirable. If your practical and conceptual working knowledge is minimal, then it is strongly recommended that you attend each individual course - ICND1 and ICND2 - instead of this intense, combination course. CCNA Boot Camp assessment is available prior to enrollment.

### **Objectives**

At the end 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
- Use the host-to-host packet delivery process to 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 router's startup and configuration
- Review how to configure and troubleshoot a small network
- Expand the switched network from a small LAN to a medium-sized LAN with multiple switches, supporting VLANs, trunking and spanning tree
- 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
- Determine how to apply ACLs based on network requirements and to configure, verify and troubleshoot ACLs on a medium-sized network
- Describe when to use NAT or PAT on a medium-sized network and configure NAT or PAT on routers
- Identify and implement the appropriate WAN technology based on network requirements

### **Audience**

Students for this internationally recognized CCNA Certification include network engineers, technicians, architects, system engineers, system administrators, and telecommunication specialists. Due to the large amount of material covered, the candidate should have prior extensive networking experience. Additional experience with routing and switching is also desirable.

### **Prerequisites**

Students should have a solid foundation of networking experience, IP subnetting.

### **Duration**

Five days

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