

Cisco® Implementing and Administering Cisco® Solutions v2.0 (CCNA)

Length: Five Days

Summary: The Implementing and Administering Cisco Solutions (CCNA) v2.0 course gives you a broad range of fundamental knowledge for all IT careers. Through a combination of lecture, hands-on labs, and self-study, you will learn how to install, operate, configure, and verify basic IPv4 and IPv6 networks. The course covers configuring network components such as switches, routers, and wireless LAN controllers; managing network devices; and identifying basic security threats. The course also gives you a foundation in network programmability, automation, and software-defined networking. This course helps you prepare to take the 200-301 Cisco® Certified Network Associate (CCNA®) exam. By passing this one exam, you earn the CCNA certification. This course also earns you 30 Continuing Education (CE) credits towards recertification.

Learning Objectives: After taking this course, you should be able to:

- Learn the knowledge and skills to install, configure, and operate a small- to medium-sized network
- Gain a foundation in the essentials of networking, security, and automation

Audience: This course is designed for anyone seeking CCNA certification. The course also provides foundational knowledge for all support technicians involved in the basic installation, operation, and verification of Cisco networks. The job roles best suited to the material in this course are: Entry-level network engineer Network administrator Network support technician Help desk technician Before taking this course, you should have: Basic computer literacy Basic PC operating system navigation skills Basic Internet usage skills Basic IP address knowledge.

COURSE CONTENT

Exploring the Functions of Networking — Lecture	Introducing the TCP/IP Internet Layer, IPv4 Addressing, and Subnets — Lecture
Introducing the Host-to-Host Communications Model — Lecture	Explaining the TCP/IP Transport Layer and Application Layer — Lecture
Operating Cisco IOS Software — Lecture	Exploring the Functions of Routing — Lecture
Introducing LANs — Lecture	Configuring a Cisco Router — Lecture
Exploring the TCP/IP Link Layer — Lecture	Exploring the Packet Delivery Process — Lecture
Starting a Switch — Lecture	Troubleshooting a Simple Network — Lecture
	Introducing Basic IPv6 — Lecture
	Configuring Static Routing — Lecture

Implementing VLANs and Trunks — Lecture

Introducing OSPF — Lecture

Building Redundant Switched Topologies — Self-study

Improving Redundant Switched Topologies with EtherChannel — Lecture Exploring Layer 3 Redundancy — Self-study

Introducing WAN Technologies — Self-study

Explaining Basics of ACL — Lecture

Enabling Internet Connectivity — Lecture

Introducing QoS — Self-study

Explaining Wireless Fundamentals — Self-study

Introducing Architectures and Virtualization — Self-study

Explaining the Evolution of Intelligent Networks — Lecture

Introducing System Monitoring — Lecture

Managing Cisco Devices — Lecture

Examining the Security Threat Landscape – Self-study

