Certified Network Associate (CCNA) v7.0

Description

This 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 CCNA certification. The 200-301 CCNA exam goes live on February 24, 2020.

Objectives

The trainee will 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
• Prepare for the 200-301 CCNA exam, which earns CCNA certification

Audience

This training 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

Course details

The course is comprised of three training parts as follows:

1. Introduction to Networks (ITN)
This part covers the architecture, structure, functions and components of the Internet and other computer networks. Students achieve a basic understanding of how networks operate and how to build simple local area networks (LAN), perform basic configurations for routers and switches, and implement Internet Protocol (IP).

Students will be able to:
• Configure switches and end devices to provide access to local and remote network resources.
• Explain how physical and data link layer protocols support the operation of Ethernet in a switched network.
• Configure routers to enable end-to-end connectivity between remote devices.
• Create IPv4 and IPv6 addressing schemes and verify network connectivity between devices.
• Explain how the upper layers of the OSI model support network applications.
• Configure a small network with security best practices.
• Troubleshoot connectivity in a small network.

IT & Networking