

Cisco Certified Support Technician (CCST) Networking

Description

The **Cisco Certified Support Technician (CCST) Networking** training teaches you foundational skills and knowledge of entry-level networking concepts and topics. You will learn how networks operate, including the devices, media, and protocols that enable network communications.

This training prepares you for the CCST Networking (100-150 CCST) exam. If passed, you earn the CCST Networking certification. This training also serves as a steppingstone for the Implementing and Administering Cisco Solutions (CCNA 200-301) v1.1 certification.

How you'll benefit

This training will help you:

- Gain skills for entry-level networking roles
- Prepare to take the 100-150 CCST exam

Who should enroll

- Entry-level Network Technicians
- Entry-level Customer Support Technicians
- Networking Students
- Networking Interns

Technology areas

- Networking

Objectives

- Identify the fundamental conceptual building blocks of networks
- Differentiate between bandwidth and throughput

- Differentiate between local area network (LAN), wide area network (WAN), metropolitan area network (MAN), campus area network (CAN), personal area network (PAN), and wireless local area network (WLAN)
- Compare and contrast cloud and on-premises applications and services
- Describe common network applications and protocols
- Compare and contrast private addresses and public addresses
- Identify IPv4 addresses and subnet formats
- Identify IPv6 addresses and prefix formats
- Identify cables and connectors commonly used in local area networks
- Differentiate between Wi-Fi, cellular, and wired network technologies
- Describe endpoint devices
- Demonstrate how to set up and check network connectivity on Windows, Linux, Mac OS, Android, and Apple iOS
- Identify the status lights on a Cisco device when given instruction by an engineer
- Use a network diagram provided by an engineer to attach the appropriate cables
- Identify the various ports on network devices
- Explain basic routing concepts
- Explain basic switching concepts
- Demonstrate effective troubleshooting methodologies and help desk best practices, including ticketing, documentation, and information gathering
- Perform a packet capture with Wireshark and save it to a file
- Run basic diagnostic commands and interpret the results
- Differentiate between different ways to access and collect data about network devices
- Run basic show commands on a Cisco network device
- Describe how firewalls operate to filter traffic
- Describe foundational security concepts
- Configure basic wireless security on a home router (WPAx)

Prerequisites

There are no prerequisites for this training.

Outline

- Networking Basics Part-1: Build a Small Network
- Networking Basics Part-2: Network Access
- Networking Basics Part-3: The Internet Protocol
- Networking Basics Part-4: Communication Between Networks
- Networking Basics Part-5: Protocols for Specific Tasks
- Networking Devices and Initial Configurations Part-1: Characteristics of Network Design
- Networking Devices and Initial Configurations Part-2: Network Addressing
- Networking Devices and Initial Configurations Part-3: ARP, DNS, DHCP, and the Transport Layer
- Networking Devices and Initial Configurations Part-4: Configure Cisco Devices
- Network Addressing and Basic Troubleshooting Part-1: Physical, Data Link, and Network Layers
- Network Addressing and Basic Troubleshooting Part-2: IP Addressing
- Network Addressing and Basic Troubleshooting Part-3: Cisco Devices and Troubleshooting Network Issues
- Network Support and Security

What to expect on the exam

Cisco Certified Support Technician Networking is a 50-minute exam associated with the CCST Networking certification and brings you one step closer toward earning your Implementing and Administering Cisco Solutions (CCNA 200-301) certification.

The exam tests your foundational knowledge and skills necessary to demonstrate how networks operate, including the devices, media, and protocols that enable network communication.

Link

- [Cisco Network Technician Career Path](#)