

CCNA Training (Cisco Certified Network Associate)

This certification is designed for individuals seeking a CCNA Routing and Switching certification. This course is also suitable for support technicians involved in the installation, operation and verification of LAN networks.

Objective

By the end of our CCNA course, you will:

- Have gained the relevant skills in order to boost your networking career
- Be able to provide transferable job skills to any organisation which uses Cisco products
- Be able to install, operate and configure a basic IPv4 and IPv6 network.
- Be familiar with Cisco networking devices

Details

Duration: 5 Days

Who is this course for

There are no prerequisites for this course, but we do recommend that you have a basic understanding of PC operating system navigation skills.

Course Content

Module 1: Building a Simple Network:

- Exploring the Functions of Networking
- Understanding the Host-to-Host Communications Model
- Introducing LANs
- Operating Cisco IOS Software
- Starting a Switch
- Understanding Ethernet and Switch Operation
- Troubleshooting Common Switch Media Issues
- Module Summary

Module 2: Establishing Internet Connectivity:

- Understanding the TCP/IP Internet Layer
- Understanding IP Addressing and Subnets
- Understanding the TCP/IP Transport Layer
- Exploring the Functions of Routing
- Configuring a Cisco Router
- Exploring the Packet Delivery Process
- Enabling Static Routing
- Managing Traffic Using ACLs
- Enabling Internet Connectivity
- Module Summary

Module 3: Managing Network Device Security:

- Securing Administrative Access
- Implementing Device Hardening
- Implementing Traffic Filtering with ACLs
- Module Summary

Module 4: Introducing IPv6

- Introducing Basic IPv6
- Understanding IPv6
- Configuring IPv6 Routing
- Module Summary

Module 5: Building a Medium-Sized Network

- Implementing VLANs and Trunks
- Routing Between VLANs
- Using a Cisco Network Device as a DHCP Server
- Troubleshooting VLAN Connectivity
- Building Redundant Switched Topologies
- Improving Redundant Switched Topologies with EtherChannel

Module 6: Troubleshooting Basic Connectivity:

- Troubleshooting IPv4 Network Connectivity
- Troubleshooting IPv6 Network Connectivity
- Module Summary

Module 7: Wide Area Networks:

- Understanding WAN Technologies
- Configuring Serial Encapsulation
- Establishing a WAN Connection Using Frame Relay
- Introducing VPN Solutions
- Configuring GRE Tunnels
- Module Summary

Module 8: Implementing an EIGRP-Based Solution

- Implementing EIGRP
- Troubleshooting EIGRP
- Implementing EIGRP for IPv6
- Module Summary

Module 9: Implementing a Scalable OSPF-Based Solution

- Implementing OSPF
- Multiarea OSPF IPv4 Implementation
- Troubleshooting Multiarea OSPF
- Examining OSPFv3
- Module Summary

Module 10: Network Device Management:

- Configuring Network Devices to Support Network Management Protocols
- Managing Cisco Devices
- Licensing
- Module Summary