

CCNA™- Cisco Certified Network Associate

Course Description:

Students will learn fundamental computer networking concepts and apply them as they configure a LAN/WAN network using Cisco routers and Catalyst switches. Through lectures, discussions, demonstrations, exercises, and laboratory projects, students are given information sufficient to identify and recommend the best Cisco solutions for anywhere from small to enterprise-sized businesses. CCNA ACC also provides the installation, configuration, and troubleshooting information that technical support people require to install, manage, and configure Cisco products.

Who Should Attend:

- Network Administrator
- Network Engineer
- Network Manager
- Systems Engineer

Prerequisites:

Basic computer literacy Windows navigation skills Basic Internet usage skills Fundamental understanding of data networking and IP addressing Familiarity with the Cisco IOS command-line interface

Course Modules:

Building a Simple Network

Exploring the Functions of Networking
Securing the Network
Understanding the Host-to-Host Communication Model
Understanding TCP/IP's Internet Layer
Understanding TCP/IP's Transport Layer
Exploring the Packet Delivery Process
Understanding Ethernet
Connecting to an Ethernet LAN

Ethernet Local Area Networks

Understanding the Challenges of Shared LANs
Solving Network Challenges with Switched LAN Technology
Exploring the Packet Delivery Process
Operating Cisco IOS Software
Starting a Switch
Understanding Switch Security
Maximizing the Benefits of Switching
Troubleshooting Switch Issues

Wireless Local Area Networks

Exploring Wireless Networking
Understanding WLAN Security
Implementing a WLAN