

Cisco Networking Academy Program

Cisco Certified Network Associate (CCNA)

Changing the Way People Learn
 The Cisco Networking Academy™ Program is a comprehensive e-learning program, which provides students with the Internet technology skills essential in a global economy. The Networking Academy program delivers Web-based content, online assessment, student performance tracking, hands-on labs, instructor training and support, and preparation for industry-standard certifications.

Launched in 1997, there are over 10,000 Networking Academies in 149 countries. Over 400,000 students are enrolled in Academies in high schools, colleges and universities, technical schools, community-based organizations, and other educational programs around the world.

The Networking Academy Curriculum
 The Networking Academy curriculum gives students at educational institutions and in-transition workers in-demand Internet technology skills for designing, building and maintaining networks. It also features optional courses,

sponsored by IT industry leaders, in: UNIX; Java Programming; Web Design; PC Hardware and Software; Network Operating Systems; and Voice and Data Cabling. Combining instructor-led, online education with hands-on laboratory exercises, the curriculum enables students to apply what they learn in class while working on actual networks. From building a Web site to basic networking skills to VLAN troubleshooting, the Networking Academy curriculum prepares students for lifelong opportunities in the real world. Cisco Certified Network Associate (CCNA) coursework is a cornerstone of the Networking Academy curriculum.

CCNA

Cisco Certified Network Associate (CCNA), a 280-hour curriculum, is the first step in a Cisco career certification path. Particular emphasis is given to using decision-making and problem-solving techniques in the application of science, mathematics, communication and social studies concepts to solve networking problems. Students will learn how to install and configure Cisco switches and routers in multiprotocol networks using local- and wide-area networks (LANs and WANs), provide Level 1 troubleshooting service, and improve network performance and security. Additionally, instruction and training are provided in the proper care, maintenance, and use of networking software tools and equipment, as well as all local, state, and federal safety, building, and environmental codes and regulations. Taught at secondary and post-secondary levels, CCNA features:

Cisco Certified
 Network Associate



- **CCNA1—Networking Basics**
- **CCNA2—Routers and Routing Basics**
- **CCNA3—Switching Basics and Intermediate Routing**
- **CCNA4—WAN Technologies**

CCNA1 Networking Basics Competencies

Upon completion of CCNA1, students have an understanding of networking basics including:

- Computer hardware and software, electricity, networking terminology, and protocols
- LANs and WANs, Open Systems Interconnection (OSI) model, Ethernet, and Internet Protocol (IP) addressing
- Design and documentation of a basic network and structured cabling
- Network-to-network communications

CCNA2 Routers and Routing Basics Competencies

Upon completion of CCNA2, students have an understanding of routers and routing including:

- Router user interfaces, components and configurations
- Basics of IOS versions, naming and software backup
- TCP/IP Protocol Suite and IP addressing and subnetting
- Interior routing protocols—RIP, IGRP

CCNA3 Switching Basics and Intermediate Routing Competencies

Upon completion of CCNA3, students have an understanding of switching and intermediate routing including:

- Switching and VLANs
- Spanning-Tree Protocol
- Routing and Routing Protocols
- Access Control Lists (ACLs)
- Network documentation, security and troubleshooting

CCNA4 WAN Technologies Competencies

Upon completion of CCNA4, students have an understanding of WAN technology basics including:

- WAN devices, encapsulation formats, and communication
- PPP components, session establishment, and authentication
- ISDN uses, services, and configuration
- Frame relay technology and configuration

Industry-Recognized Certification

Cisco Certified Network Associate (CCNA) coursework prepares students for CCNA certification.

Comprehensive Internet Skills For Economic Growth

According to a May 2002 ITAA report, there will be a demand for more than 1.1 million new IT jobs in the next year with almost 600,000 jobs going unfilled due to a lack of qualified workers. The report also found that the five hottest, most in demand jobs now and in the future are technical support, network design and administration, programming and software engineering, web development, and database development and administration. Moreover, a recent study conducted by Fairfield Research, Inc. and *Certification Magazine* on the correlation between industry certifications and earning power shows that, “the more certifications the IT professional has, the more he or she tends to get paid.” (*Certification Magazine*, “CertMag’s Salary Survey,” by Gary Gabelhouse, December, 2001.)

The Cisco Networking Academy curriculum prepares students for industry standard, as well as vendor neutral certifications. These include Cisco Certified Network Associate (CCNA™); Cisco Certified Network Professional (CCNP™); A+, Linux+, Network+, Server+ certifications, administered by CompTIA, Sun Certified Programmer for Java 2 Platform, and Certified Web Designer Associate administered by The World Organization of Webmasters (WOW). Bottom line—the Networking Academy curriculum enriches the skill set required to succeed in a changing economy.

Visit the following Web sites for more information on:

Cisco Networking Academy Program
www.cisco.com/edu/academy

Locating a Networking Academy
www.cisco.com/edu/academylocator

Cisco Workplace Learning Initiatives
wpl.netacad.net



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