Cisco Networking Academy Program

Cisco Certified Network Associate (CCNA)

The Cisco® Networking Academy® Program teaches valuable networking and IT skills to students and workers worldwide who are interested in expanding their IT knowledge or starting a career in the high-tech industry. The Networking Academy program also fosters local economic growth by providing innovative IT curricula, as well as development and support to technical education instructors, helping to create an IT-skilled workforce.

Changing the Way People Learn

More than one million students have successfully completed Networking Academy courses in high schools, colleges, universities, technical institutions, military schools, and community-based organizations around the world. The courses use a blended learning model to integrate face-to-face teaching with challenging Web-based curricula, hands-on lab exercises, realistic network simulations, and an Internet-based assessment tool.

Since its launch in 1997, the Networking Academy program has reached over 10,000 educational institutions in more than 150 countries, with courses taught in nine languages. This industry-leading program provides an educational framework that prepares graduates for networking and IT-related careers in the public and private sectors, as well as for higher education in engineering, computer science, and related fields.

CCNA

CCNA® is a comprehensive curriculum that includes four separate modules. These modules cover the learning objectives of the CCNA certification exam, which is the first step in a Cisco career certification path. The curriculum emphasizes the use of decision-making and problem-solving techniques to resolve networking issues.

Students learn how to install and configure Cisco switches and routers in local and wide-area networks using various protocols, provide Level 1 troubleshooting service, and improve network performance and security. Additionally, training is provided in the proper care, maintenance, and use of networking software tools and equipment.

The CCNA certification course, which is taught mainly at secondary and post-secondary levels, features the following modules:

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

The CCNA courses provide students with the competencies outlined in the following table:

CCNA Competencies

CCNA1 Networking Basics	CCNA2 Routers and Routing Basics	CCNA3 Switching Basics and Intermediate Routing	CCNA4 WAN Technologies
• Basics of Ethernet technologies	• Basics of configuring routers	• VLSM	• ISDN and DDR
• Cabling LANs and WANs	• Routing protocols	• Basics of OSPF and EIGRP	• Frame Relay
• Network media	• TCP/IP concepts	• Switch concepts and configuration	• PPP
• Basics of TCP/IP and IP addressing	• Access control lists	• Spanning -Tree Protocol	• WAN technologies
• Routing fundamentals	• Networking troubleshooting skills	• VLANs and VTP	• NAT, PAT, and DHCP

Industry-Recognized Certification

CCNA coursework prepares students for the CCNA certification, which may be taken as a single comprehensive exam or both the Introduction to Cisco Networking Technologies (INTRO) and Interconnecting Cisco Networking Devices (ICND) exams.

An annual reader survey conducted by CertCities.com, which is an online publication for certified IT professionals with over 30,000 readers worldwide, rated CCNA as one of the top certifications for 2005 (*CertCities.com "3rd Annual Reader's Choice Awards,"* by Becky Nagel, December 2004).

Networking Academy Curricula Overview

The CCNA courses, as well as all other Networking Academy curricula, are taught by trained instructors in each Networking Academy who deliver standards-based, high-quality content in specially equipped labs, where students practice hands-on exercises to apply the concepts they learn. Cisco updates the curricula regularly to encompass new technologies and improved instructional techniques.

The Networking Academy courses prepare students for opportunities in the real world by providing skills that range from basic networking abilities to VLAN troubleshooting. Academy courses support successful careers in network design and administration, technical support, programming, and software engineering.

The associate-level CCNA courses listed above cover the basic foundations of networking. The professional-level CCNP® curriculum builds on CCNA with more complex network configurations, diagnosis, and troubleshooting.

The Network Security courses teach students how to design and implement security solutions on routers and firewalls, while promoting their understanding of security threats and weaknesses within a network. The Fundamentals of Wireless LANs is an introductory course that covers the design, planning, implementation, operation, and troubleshooting of wireless networks.

Additional Networking Academy courses include HP IT Essentials I and II, sponsored by Hewlett Packard, which cover PC maintenance and support as well as network operating systems; Panduit Network Infrastructure Essentials, sponsored by Panduit Corporation, which teaches all aspects of the physical layer of the network; Fundamentals of Java Programming; and Fundamentals of UNIX.

The Cisco Networking Academy courses prepare students for industry-standard certifications as well as vendor-neutral certifications, as shown in the following table:

Networking Academy Course	Certification
CCNA modules 1–4	CCNA
CCNP modules 1–4	CCNP
Fundamentals of Java Programming	Sun Certified Programmer for Java™ 2 Platform
Fundmentals of UNIX	CompTIA Linux+ (when combined with HP IT Essentials II)
HP IT Essentials I: PC Hardware and Software	CompTIA A+
HP IT Essentials II: Network Operating Systems	CompTIA Linux+ (when combined with Fundamentals of UNIX)
Network Security	Cisco Firewall Specialist
Panduit Network Infrastructure Essentials (PNIE)	Panduit Authorized Installer (PAI)

Visit the following Websites for more information:

Cisco Networking Academy Program:
www.cisco.com/go/netacad

More information on courses:
www.cisco.com/edu/courses

Academy locator tool:
www.cisco.com/edu/academy_locator

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