

Cisco Networking Academy Program

Cisco CCNA Course



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 technology industry. The Networking Academy program also fosters local economic growth by providing innovative

IT curricula, as well as instructor development and support, to help produce a skilled workforce.

Changing the Way People Learn

More than two million students have successfully completed Networking Academy program 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 online 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 more than 11,000 educational institutions in more than 165 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

The Cisco CCNA® curriculum 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.

CCNA students learn how to install and configure Cisco switches and routers in local and wide-area networks using various protocols, how to provide Level 1 troubleshooting service, and how to improve

network performance and security. Additionally, the CCNA curriculum provides training in the proper care, maintenance, and use of networking software tools and equipment.

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

- CCNA 1—Networking Basics
- CCNA 2—Routers and Routing Basics
- CCNA 3—Switching Basics and Intermediate Routing
- CCNA 4—WAN Technologies

The CCNA courses provide students with the competencies outlined in the table.

Industry-Recognized Certification

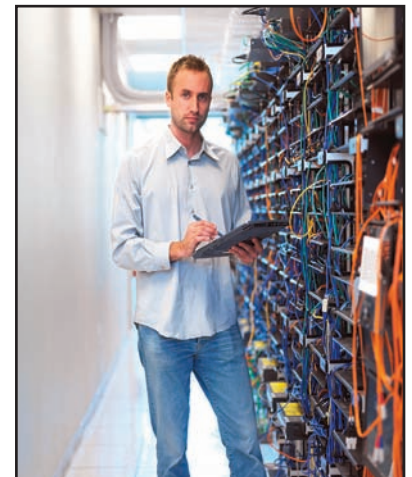
CCNA coursework prepares students for the CCNA certification, which may be taken as a single comprehensive exam or as two exams; the Introduction to Cisco Networking Technologies (INTRO) exam and the Interconnecting Cisco Networking Devices (ICND) exam.

An annual reader survey conducted by CertCities.com, which is an online publication for certified IT professionals with more than 30,000 readers worldwide, rated CCNA as one of the top certifications for 2006.

Networking Academy Program Curricula Overview

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

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



CCNA Competencies

CCNA 1 Networking Basics	CCNA 2 Routers and Routing Basics	CCNA 3 Switching Basics and Intermediate Routing	CCNA 4 WAN Technologies
<ul style="list-style-type: none"> Basics of Ethernet technologies 	<ul style="list-style-type: none"> Basics of configuring routers 	<ul style="list-style-type: none"> VLSM 	<ul style="list-style-type: none"> ISDN and DDR
<ul style="list-style-type: none"> Cabling LANs and WANs 	<ul style="list-style-type: none"> Routing protocols 	<ul style="list-style-type: none"> Basics of OSPF and EIGRP 	<ul style="list-style-type: none"> Frame Relay
<ul style="list-style-type: none"> Network media 	<ul style="list-style-type: none"> TCP/IP concepts 	<ul style="list-style-type: none"> Switch concepts and configuration 	<ul style="list-style-type: none"> PPP
<ul style="list-style-type: none"> Basics of TCP/IP and IP addressing 	<ul style="list-style-type: none"> Access control lists 	<ul style="list-style-type: none"> Spanning Tree Protocol 	<ul style="list-style-type: none"> WAN technologies
<ul style="list-style-type: none"> Routing fundamentals 	<ul style="list-style-type: none"> Network troubleshooting skills 	<ul style="list-style-type: none"> VLANs and VTP 	<ul style="list-style-type: none"> NAT, PAT, and DHCP



The associate-level CCNA courses cover the basic foundations of networking. The professional-level Cisco CCNP® courses build on CCNA with more

complex network configurations, diagnosis, and troubleshooting.

The *Network Security* course teaches 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* course teaches students how to design, plan, implement, operate, and troubleshoot wireless networks.

Additional Networking Academy program courses include *IT Essentials I* and *IT Essentials II*, which cover PC maintenance and network operating systems; *Panduit Network Infrastructure Essentials*, which

is sponsored by Panduit Corporation and teaches all aspects of the physical layer of the network; *Fundamentals of Java Programming*; and *Fundamentals of UNIX*.

Cisco Networking Academy Program courses prepare students for industry-standard certifications as well as vendor-neutral certifications.

For More Information

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

Course Catalog
www.cisco.com/edu/courses

Locate a Networking Academy
www.cisco.com/edu/locate



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