

# Cisco Networking Academy Program

## Cisco Certified Network Professional (CCNP)

### 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.

### CCNP

*Cisco Certified Network Associate (CCNA)* certification is recommended for students to enroll in the Cisco Certified Network Professional (CCNP) curriculum. This advanced curriculum trains students to install, configure and operate local and wide-area networks (LANs and WANs), and dial access services for organizations with networks from 100 to more than 500 nodes with protocols and technologies such as: TCP/IP, OSPF, EIGRP, BGP, ISDN, Frame Relay, STP, and VTP. The focus is on developing those skills that enable students to implement scalable networks, build campus networks using multilayer switching technologies, create and deploy a global intranet, and troubleshoot an environment using Cisco routers and switches for multiprotocol client hosts and services. Taught primarily at the post-secondary level, CCNP features:

- **CCNP1—Advanced Routing**
- **CCNP2—Remote Access**
- **CCNP3—Multilayer Switching**
- **CCNP4—Network Troubleshooting**

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Network Professional



### CCNP1 Advanced Routing Competencies

Upon completion of CCNP1, students will be able to perform advanced routing tasks including:

- Selecting and configuring scalable IP addresses
- Implementing technologies to redistribute and support multiple, advanced, IP routing protocols such as OSPF, EIGRP, and BGP
- Configuring access lists
- Designing and testing edge router connectivity into a BGP network

### CCNP2 Remote Access Competencies

Upon completion of CCNP2, students will be able to perform advanced remote access tasks including:

- Configuring Asynchronous connections
- Point-to-Point Protocol (PPP) architecture, protocol, callback, and compression
- ISDN architecture, protocol layers, BRI and DDR
- Configuring X.25, Frame Relay, and AAA

### CCNP3 Multilayer Switching Competencies

Upon completion of CCNP3, students will be able to perform multilayer switching tasks including:

- Fast Ethernet, Gigabit Ethernet
- VLAN basics, types, identification, and trunking protocol
- Spanning Tree Protocol
- MLS processes, and configuration
- Multicasting protocols, routing, and tasks

### CCNP4 Network Troubleshooting Competencies

Upon completion of CCNP4, students will be able to perform network-troubleshooting tasks in areas such as:

- OSI Layers 1, 2, and 3
- TCP/IP, LAN switching, VLANs, Frame Relay, ISDN, Appletalk, Novell, EIGRP, OSPF, BGP

### Industry-Recognized Certification

Cisco Certified Network Professional (CCNP) coursework prepares students for CCNP 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](http://www.cisco.com/edu/academy)

Locating a Networking Academy  
[www.cisco.com/edu/academylocator](http://www.cisco.com/edu/academylocator)

Cisco Workplace Learning Initiatives  
[wpl.netacad.net](http://wpl.netacad.net)



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