



Cisco  
Networking Academy Program  
The Future Is Yours



# Cisco Networking Academy Program

"I was able to complete the Cisco Networking Academy Program at Erie Community College. I now have networking skills, telecommunications skills and an Associate's Degree. Verizon now has a technology professional who is grateful to the company that invested in him."

David Andrade  
Academy Graduate  
Telecommunication Technical Associate  
Verizon, United States

## Education in a Changing Economy

The world is changing. Technology is revolutionizing almost every aspect of our lives. The only thing holding us back is knowledge. Companies all over the world need talented people with the skills and know-how to drive their businesses forward into the Internet economy. By becoming a student in the Cisco Networking Academy® Program, you'll put yourself at the forefront of this revolution.

Take a look around—technology is everywhere—from banks to hospitals to factories to food markets to government agencies. Technology is now an essential and a natural part of everybody's life.

Behind this technology revolution you'll find the integration of powerful, high-speed networks, secure servers and Web-friendly applications and services. And, behind those technologies, you'll find people with the skills and knowledge to deliver and maintain them. That's where the Cisco Networking Academy Program comes in.

Today, it's a network of more than 10,000 Academies in more than 150 countries with a curriculum taught in nine different languages. Currently, over 400,000 students participate in Academies operating in high schools, colleges and universities, technical schools, community-based organizations, and other educational programs around the world.

Think of the Cisco Networking Academy Program as your gateway to a highly rewarding career.



## Why Learn About Information Communications and Technology (ICT)?

IT is a growing industry, essential to economic and business development. According to IDC analysts: The IT industry will grow by 6-7% in 2004 and the Internet will have 1 billion users by 2006 and support \$6 trillion (USD) in commerce. New technologies such as converged devices, smart handhelds, wireless games, embedded devices in every day durable goods will be on the rise. Moreover, most companies whether in the automotive, natural resource, biotech, health care, aerospace, agriculture or other sectors, depend on ICT technologies to innovate, increase productivity and remain competitive.

In addition, the Internet has become a major force in our lives, redefining the way we work, live, play and learn. Corporate and public networks link millions of organizations and individuals worldwide. Competitive advantage is now measured as much by technology innovation as it is by traditional sales curves. Innovation historically comes after an economic downturn, as businesses expand, they will need skilled workers.

The result? A huge demand for networking and Internet skills and only a limited number of people with those skills. In fact, research suggests that a continuing skills gap exists. ITAA studies indicated that thousands of IT-related jobs go unfilled every year. In the US, there will be a demand for 493,000 jobs in 2003. Australia alone will be short of 180,000 IT-skilled people in the workforce by 2004\*. In India, 7 million jobs will be created in the IT sector by 2008\*\*.

Students with the right skills are greatly needed by top companies worldwide. Not only will there be ample opportunities within your own country, you can explore the world knowing wherever you go, your skills will be in demand.

The Cisco Networking Academy Program provides a solution to these demands. Its courses, led by highly trained instructors, develop real-world skills. The curriculum is designed, updated and continually assessed by ICT experts.

\*The Value of Cisco Networking Academies to Australia—Allen Consulting Report, 2001

\*\*The Economic Times, 2001

“I gained confidence and a feeling of significance by receiving my CCNA certification while in high school. I couldn’t have done it without the Cisco Networking Academy.”

Terezia Matejovic  
Cisco Networking Academy Graduate  
High School Salutatorian, Attending  
Xavier University  
Ohio, United States

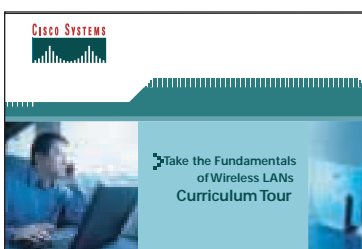
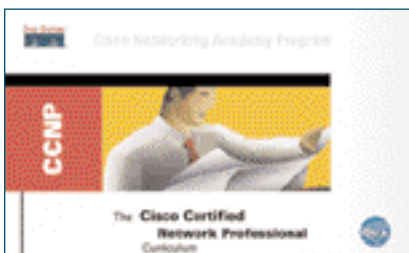


# Curriculum and Certification Highlights

"As an Information Systems graduate I thought I knew everything about computers but the Cisco Networking Academy Program gave me extra valuable skills to solve problems beyond the application and presentation layer of a computer system."

Ferdinand Pura

Cisco Networking Academy graduate  
California State University, Fresno  
US



## What Will I Learn?

When you become a Networking Academy student, you're not entering a world of theory you'd need a physics degree to understand. The Web-based curriculum covers a broad range of topics, from crimping cable to building a computer to basic networking skills to VLAN troubleshooting. In addition to these skills, the Academy program will help you improve mathematics, science, languages, writing and problem solving abilities as well soft skills, such as team building, critical thinking, problem solving, interviewing and career planning.

The combination of lectures, case studies and practical hands-on lab exercises ensures an understanding of the skills needed in the Internet economy. These innovative courses have many benefits:

## A direct route to industry-standard certification

The program will prepare you for industry standard certifications. Certifications are viewed as a valid measure for assessing skills and assure an employer that the certified individual is qualified to perform on the job. These include Cisco Certified Network Associate (CCNA®); Cisco Certified Network Professional (CCNP®); Cisco Firewall Specialist; Cisco Wireless LAN Support Specialist; A+, Linux+, Network+, Security+, Server+ certifications, administered by CompTIA, Sun Certified Programmer for Java 2 Platform, and Certified Web Designer Associate (US only) administered by the World Organization of Webmasters (WOW).

## New learning techniques with Web-based curriculum

Educators and policymakers agree that student learning occurs best when high-quality curriculum, instruction, and assessment are standards-based, aligned and reinforcing each other. The Networking Academy program is NOT just a virtual class or an online course. The curriculum is delivered over the Internet to classrooms with certified instructors and specialized equipment. The standards-based curriculum emphasizes critical thinking, problem solving, and collaboration as well as practical knowledge. Rich multimedia including flash simulation, video, interactive quizzes, etc. address a variety of learning styles at once. Embedded assessment provides students, instructors, and Cisco with immediate feedback about progress and effectiveness. The curriculum is constantly updated so that you're guaranteed you're always learning the most relevant skills. It also gives you the flexibility to access the learning resources for preparation and revision, even when you're out of the classroom.

## Study based on the latest Internet technology

As the Networking Academy labs always contain up-to-the minute equipment, you learn on the actual equipment you'll be working on in the business environment. This gives you the opportunity to develop troubleshooting skills as well as strengthen critical thinking and problem solving. You will be prepared for knowledge and skills needed for any career or job in the Internet economy.

## Path to continued education

The Networking Academy program successfully prepares students for higher education in engineering, computer science, and related fields.

## What are the courses I can take?

Consider that the average salary earned by Cisco Certified Network Professionals (CCNP) in the TCP Magazine Salary (June 2002) is \$64,000 (USD). And, the more certifications one has, the greater his or her earning power. Industry certification translates into real economic development that benefits individuals and the communities in which they live.

**Cisco Certified Network Associate (CCNA)** Primarily taught at the secondary, post-secondary, and higher education levels, CCNA is a 280-hour curriculum, and the first step to 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. You will learn 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.

Upon successful completion of this course, you will receive a Certificate of Completion. This curriculum also prepares you for the CCNA exam and for the Network+ certification, a certification in basic networking skills, which is available through CompTIA (Computing Technology Industry Association).

The CCNA curriculum will help prepare you for a career path towards the following occupations: network engineer, network administrator, systems analyst, testing engineer, information systems architect, and systems integrator. For higher education bound students, this curriculum provides a good foundation to help you enter into the electrical engineering or computer science and management information systems degree programs.

**Cisco Certified Network Professional (CCNP)** Taught primarily at the post-secondary and higher education level, the 280-hour CCNP curriculum requires you to have a CCNA certification. This advanced curriculum trains you to

install, configure and operate local and wide area networks, and dial access services for organizations of networks from 100 or more nodes with protocols and technologies. It focuses on developing skills that enable you 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.

Upon successful completion of this course, you will receive a Certificate of Completion and are prepared to take the CCNP exam. CCNA and CCNP together form a strong foundation, which may be built upon with additional coursework to prepare for the Cisco Certified Internetwork Expert (CCIE™) certification. CCIE is the industry's most respected certification for a network professional.

The CCNP curriculum will further prepare you for a career path towards the following occupations: network engineer, network architect, systems analyst, testing engineer, information systems architect, and systems integrator. For higher education bound students, this curriculum provides a good foundation to help you enter into the electrical engineering or computer science and management information systems degree programs.

**Fundamentals of Network Security** The Cisco Networking Academy Program has added the Fundamentals of Network Security to the suite of curriculum. This 70-hour course will teach you to design and implement security solutions and provide you with an introduction to network security and overall security processes.

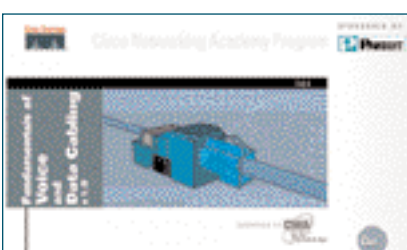
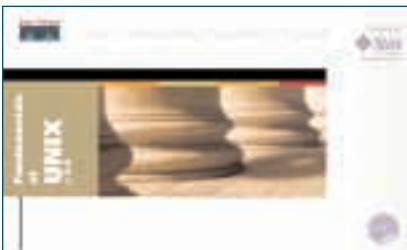
Upon successful completion of this course, you will receive a Certificate of Completion and are prepared to take the Cisco Firewall Specialist exam. These exams have a CCNA certification as a prerequisite. Students will also be prepared to take the vendor neutral CompTIA Security+ certification.

The Network Security course will help prepare you for a career path towards the following occupations: network security analyst, senior systems analyst and systems architect. For higher education bound students, this course provides a good foundation to help you enter into electrical engineering or computer science and management information systems degree programs.

**Fundamentals of Wireless LANs** In addition, the Cisco Networking Academy Program has added the Fundamentals of Wireless LANs. This 70-hour course is an introductory course that will focus on the design, planning, implementation, operation and troubleshooting of wireless networks.

Upon successful completion of this course, you will receive a Certificate of Completion. This course will prepare you to achieve the Cisco Wireless LAN Support Specialist certification.

The Wireless LANs course will help prepare you for a career path towards the following occupations: systems engineer, product support engineer, and systems integrator. For higher education bound students, this course provides a good foundation to help you enter into electrical engineering or computer and management information systems degree programs.



## IT Industry Sponsors

Courses, sponsored by IT industry leaders broaden the Networking Academy program curriculum offerings, while increasing your skill sets and marketability.

IT Essentials I: PC Hardware and Software and IT Essentials II: Network Operating Systems are sponsored by Hewlett-Packard Company. These courses are an excellent introduction to Information Technology that includes an overview of IT, mathematics for the digital age, introduction to networking, PC maintenance, safety and troubleshooting. IT Essentials I: PC Hardware and Software is recommended as the first course for entry in the IT field.

Upon successful completion of each course, you will receive a Certificate of Completion. IT Essentials I prepare students for the CompTIA A+ certification exam. Together, IT Essentials I and II will prepare you for the CompTIA Server+ certification exam. Additionally, IT Essentials II along with the Fundamentals of UNIX course will help prepare you for the CompTIA Linux+ exam.

The IT Essentials I course will help prepare you for a career path towards the following occupations: hardware installation coordinator and PC system support. For higher education bound students, this course provides a good foundation to help you enter into computer science and management information systems degree programs.

In combination with IT Essentials I, IT Essentials II will help prepare you for a career path towards the following occupations: network administrator, network technician, systems analyst, technical support engineer, applications integrator, business continuity analyst, tester and systems administrator. It will also provide a good foundation to help you enter in the computer science and management information systems degree programs.

Fundamentals of UNIX and Fundamentals of Java Programming are sponsored by Sun Microsystems. These 70-hour courses help prepare you for advanced education in UNIX and Linux administration, or Internet-based jobs and Java programming positions. Upon successful completion of these courses, you will receive Certificate of Completion. For the Java course, you will be prepared for the Sun Certified Programmer for Java 2. Fundamentals of UNIX, in combination with IT Essentials II: Network Operating Systems, will help prepare you for the CompTIA Linux+ certification exam.

In combination with IT Essentials II, the UNIX course will help prepare you for a career path towards the following occupations: network analyst, programmer/analyst, systems analyst, website developer, and data modeling specialist. These courses, together, will also provide a good foundation to help you enter into computer science and management information systems degree programs.

The Java course will help prepare you for a career path towards the following occupations: program analyst, systems analyst, programmer, website developer, and data modeling specialist. This course will also provide a good foundation to help you enter into computer science and management information systems degree programs.

Fundamentals of Web Design (U.S. only) is sponsored by Adobe Systems and presently offered in the United States. This 70-hour course offers hands-on Web design exercises using Adobe Photoshop, Adobe Illustrator, Adobe GoLive, Adobe LiveMotion, and Adobe Premiere. Upon successful course completion, you will receive a Certificate of Completion and are prepared for the Web Designer Associate (CWDSA) certification exam sponsored by the World Organization of Webmasters (WOW).

The Web Design course will help prepare you for a career path towards the following occupations: programmer analyst, systems analyst, programmer, website developer, and data modeling specialist. For higher education bound students, this course provides a good foundation to help you enter in a management information systems degree program.

Fundamentals of Voice and Data Cabling is sponsored by Panduit Corporation. This 70-hour, hands-on, lab-oriented course stresses documentation, design and installation issues, laboratory safety and on-the-job safety, as well as working effectively in group environments. You will become familiar with cabling issues related to data and voice connections, media and transmissions practices, and cabling customer support.

Upon successful completion of the course, you will receive a Certificate of Completion. This course along with additional course materials and work experience helps you prepare for the BICSI Registered Installer, Level 1 exam.

The Voice and Data Cabling course will help prepare you for a career path towards the following occupations: network technician, technical support specialist, maintenance technician, testing engineer, information systems planner, and systems integrator. This course provides a good foundation to help you enter in an electrical engineering degree program.

### Career Support

As a Networking Academy student, you will have access to resources that help you gain valuable real-world experience in the workplace. And when you are ready to join the workforce, the online Career Connection tool helps you connect with prospective employers. An Alumni program provides graduates with on-going support and services to keep your knowledge and skills up to date.

Visit the following Web sites for more information

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 Education Information:  
[www.cisco.com/edu](http://www.cisco.com/edu)

Career Connection:  
[www.cisco.netacad.net/public/workforce/alumni/index.html](http://www.cisco.netacad.net/public/workforce/alumni/index.html)

More information on courses:  
[www.cisco.netacad.net/public/academy/catalog/index.html](http://www.cisco.netacad.net/public/academy/catalog/index.html)

“This inspired a new career for me. I am enjoying the processes of creating my own designs. I am looking forward to a career in graphic design.”

Sherri Washington  
 Cisco Networking Academy student  
 ComCorps Academic Magnet  
 Roxborough High School  
 School District of Philadelphia

Academy Curriculum	Certification	Course Sponsor
Cisco Certified Network Associate	<ul style="list-style-type: none"> <li>• CCNA</li> <li>• Network+</li> <li>• Certificate of Completion</li> </ul>	Cisco
Cisco Certified Network Professional	<ul style="list-style-type: none"> <li>• CCNP</li> <li>• Certificate of Completion</li> </ul>	Cisco
Fundamentals of Network Security	<ul style="list-style-type: none"> <li>• Cisco Firewall Specialist</li> <li>• Security+</li> <li>• Certificate of Completion</li> </ul>	Cisco
Fundamentals of Wireless LANs	<ul style="list-style-type: none"> <li>• Cisco Wireless LAN Support Specialist</li> <li>• Certificate of Completion</li> </ul>	Cisco
Fundamentals of UNIX	<ul style="list-style-type: none"> <li>• Linux+ (in combination with IT Essentials II)</li> <li>• Certificate of Completion</li> </ul>	Sun
Fundamentals of Java Programming	<ul style="list-style-type: none"> <li>• Sun Certified Programmer for Java 2</li> <li>• Certificate of Completion</li> </ul>	Sun
Fundamentals of Web Design (Only available in the U.S.)	<ul style="list-style-type: none"> <li>• CWDSA</li> <li>• Certificate of Completion</li> </ul>	Adobe
Fundamentals of Voice and Data Cabling	<ul style="list-style-type: none"> <li>• BICSI Registered Installer, Level 1 Exam (with additional course and work experience)</li> <li>• Certificate of Completion</li> </ul>	Panduit
IT Essentials I: PC Hardware and Software	<ul style="list-style-type: none"> <li>• A+</li> <li>• Server+ (in combination with IT Essentials II)</li> <li>• Certificate of Completion</li> </ul>	HP
IT Essentials II: Network Operating Systems	<ul style="list-style-type: none"> <li>• Server+ (in combination with IT Essentials I)</li> <li>• Linux+ (in combination with Fundamentals of Unix)</li> <li>• Certificate of Completion</li> </ul>	HP



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