

# Cisco Networking Academy Program

IT Essentials I and II

Sponsored by Hewlett-Packard Company

## 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. 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.

Curriculum success is rooted in the educational ecosystem that Cisco creates through its partnerships with schools and colleges, businesses, nonprofit organizations, international organizations, unions, and government agencies. This ecosystem allows the Networking Academy curriculum to feature 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.

Hewlett-Packard Company's inventive capabilities are focused on emerging technologies in areas of connected devices, Internet infrastructure, and enabling a new generation of e-services. Hewlett-Packard is partnering with the Cisco Networking Academy Program by sponsoring two, new IT Essentials courses.

## IT Essentials I:

PC Hardware and Software

*IT Essentials I: PC Hardware and Software*, sponsored by Hewlett-Packard Company, introduces students to information technology and data communications.

This 70-hour, hands-on, lab-oriented course stresses laboratory safety and working effectively in a group environment. Students will learn how to build a computer and install different versions of the Windows operating system. This course will help prepare students for exciting career opportunities in computer technology.

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## IT Essentials I:

### PC Hardware and Software Competencies

Upon successful completion of this course, students will receive a Certificate of Completion for *IT Essentials I: PC Hardware and Software*. Acquired competencies include:

- Building a computer and installation of the motherboard, floppy and hard drives, CD-ROM, and video cards.
- Installing and managing Windows operating systems.
- Adding peripherals and multimedia capabilities.
- Knowledge of local-area network architecture, networking protocols and the OSI Model, and TCP/IP utilities.
- Connecting the computer to a local area network and to the Internet.

In addition to basic networking concepts, the functions and configurations of a network are also covered.

### Industry-Recognized Certification

*IT Essentials I: PC Hardware and Software* prepares students for the CompTIA A+ certification exam.

IT  
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## IT Essentials II:

### Network Operating Systems

*IT Essentials II: Network Operating Systems*, sponsored by Hewlett-Packard Company, is an intensive introduction to multi-user, multi-tasking network operating systems. This 70-hour, hands-on, lab-oriented course is designed to be an overview of network operating systems and specifically covers the Linux Red Hat Network operating system. Students will learn how to use the Linux operating system, the K Desktop Environment (KDE), and GNU Network Object Model (GNOME). This course will be a stepping stone to help prepare students for challenging careers, such as skilled hardware support professional and Linux support professional. Acquired competencies include:

- Configuration of network services, including basic network security and troubleshooting.

- Use fundamental command-line features of the Linux environment including file system navigation, file permissions, the vi text editor, command shells, and basic network use.
- Explore GUI features including Applications Manager, Text Editor, printing, and mail.
- Know basic administrative tasks with Windows 2000.

### Industry-Recognized Certification

*IT Essentials II: Network Operating Systems*, along with *IT Essentials I*, will help prepare students for the CompTIA Server+ certification exam. Additionally, *IT Essentials II: Network Operating Systems* along with the *Fundamentals of UNIX* course will also help prepare students for the CompTIA Linux+ certification exam.

### 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 *IT Essentials I: PC Hardware and Software* and *IT Essentials II: Network Operating Systems* expand and strengthen the Cisco Networking Academy curriculum, which 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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