



## Cisco Networking Academy Program

### IT Essentials I and II



**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**

**fosters local economic growth by providing innovative IT curricula, as well as instructor development and support, to help produce a skilled workforce. Since its launch in 1997, the Academy program has reached more than two million students in more than 165 countries.**

#### The Cisco Networking Academy Program Courses

The Networking Academy program gives students access to Internet technology skills for designing, building, and maintaining networks. The Networking Academy program combines instructor-led, online education with hands-on lab exercises to enable students to apply what they learn in class while working on networks. Student 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.

#### IT Essentials I: PC Hardware and Software

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

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

- Building a computer and installation of the motherboard, disk drives, CD-ROM drives, and video cards
- Installing and managing Windows operating systems
- Adding peripherals and multimedia capabilities
- Demonstrating knowledge of local-area network architecture, networking protocols, the OSI reference model, and TCP/IP utilities
- Connecting computers to LANs and to the Internet

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

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

#### IT Essentials II: Network Operating Systems

*IT Essentials II: Network Operating Systems* is an intensive introduction to multiuser, multitasking network operating systems. This 70-hour, hands-on, lab-oriented course is designed to provide an overview of network operating systems, with specific focus on the characteristics of Linux and Windows operating systems. This course will be a stepping stone to help prepare students for challenging careers—for example, as skilled hardware and network operating system professionals.





IT Essentials II acquired competencies include the following:

- Configuring network services, including basic network security and troubleshooting
- Using fundamental command-line features of the Linux and Windows Server environments, including file system navigation, file permissions,

the vi text editor, command shells, and basic networking

- Exploring GUI features such as Applications Manager, Text Editor, printing, and mail
- Performing basic administrative tasks in Windows

## Industry-Recognized Certification

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

IT Essentials I and IT Essentials II expand and strengthen the Cisco Networking Academy Program, which helps prepare students for industry-standard and vendor-neutral certifications. These include the Cisco CCNA® certification; the Cisco CCNP® certification; and the A+ and Linux+ certifications administered by CompTIA.

## For More Information

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