CISCO SYSTEMS

Cisco Networking Academy Program

Fundamentals of UNIX and Fundamentals of Java Programming
Sponsored by Sun Microsystems

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.

Sun Microsystems is a leading provider of industrial-strength hardware, software, and services that power the Internet and allow companies worldwide to conduct their businesses in a digital world. Sun is partnering with the Cisco Networking Academy Program by sponsoring two new courses on the fundamentals of UNIX and Java programming.

Fundamentals of UNIX

Fundamentals of UNIX, sponsored by Sun Microsystems, allows Cisco Networking Academies to specialize in UNIX training as they prepare students for advanced education in UNIX administration or Internet-based jobs. This 70-hour, hands-on, skills-based UNIX course teaches students how to use the UNIX operating system and introduces them to the CDE, GNOME, and KDE Graphical User Interfaces (GUI). An overview of the Sun Solaris and Linux versions of the UNIX operating system is provided. This course will be a stepping stone to help prepare students for challenging careers, such as a UNIX/Linux support professional.

Fundamentals of UNIX

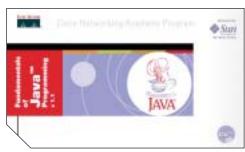Sponsored by Sun Microsystems

UNIX Competencies

Upon successful completion of this course, students receive a *Fundamentals of UNIX* Certificate of Completion. Acquired UNIX competencies include:

- Use fundamental command-line features of UNIX including file system navigation and file manipulation.
- Changing file permissions, the vi and emacs text editors, Korn and Bash shell features, basic shell scripts, and basic network use.
- Ability to use Graphical User Interface (GUI) features such as Application Managers, File Managers, Text Editors, printing and mail.

Industry-Recognized Certification

Fundamentals of UNIX provides basic, entry-level Solaris and LINUX training. This course, in combination with *IT Essentials II: Network Operating Systems*, will help prepare students for the CompTIA Linux+ certification exam.

Fundamentals of Java Programming
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Fundamentals of Java Programming

Fundamentals of Java Programming, sponsored by Sun Microsystems, provides a 70-hour introduction to Java Programming, which teaches students how to use the Java language's object-oriented technologies to solve business problems. Students will become familiar with: Java programming basics in creating classes, objects, and applications; the Java language Application Programming Interface; and Graphical User Interface applications.

Lab software requirements include: the Java 2 Platform Standard Edition and the Java 2 Platform Standard Edition Documentation, available at no cost at http://java.sun.com/j2se/; and the BlueJ Java Development Tool, available at no cost at http://www.bluej.org.

Java Programming Competencies

Upon successful completion of this course, students will receive a *Fundamentals of Java Programming* Certificate of Completion. Acquired Java programming competencies include:

- Understanding the history and current use of object-oriented programming and the Java language to solve business problems.

- Knowledge of the Java environment and use of the Java development kit.
- Application of Java language keywords and syntax to create statements for declaring and storing java data types.
- Ability to write code that implements object-oriented principles and design encapsulation, composition, and inheritance.

Industry-Recognized Certification

Fundamentals of Java Programming prepares students for the Sun Certified Programmer for Java 2 Platform certification exam. This course maps to the Advance Placement (AP) standards set by the U.S. College Board.

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 *Fundamentals of UNIX* and the *Fundamentals of Java Programming* both 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

Locating a Networking Academy
www.cisco.com/edu/academylocator

Cisco Workplace Learning Initiatives
wpl.netacad.net

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