

A KEY INDUSTRY RETURNS



The information technology (IT) industry is back on the road to growth. The premier global market intelligence company – IDC – is forecasting 2004-2008 IT growth and predicts that IT spending will increase by 35.2 percent worldwide over a five year period*. This is a positive indicator that a progressive IT education will be of great value as potential employers look for talented individuals who have the latest technical skills to keep up with innovations in the market.

As the need for computer systems expands, so too does the IT industry. Yet all too frequently the fundamental understanding of basic technology is unavailable. Very often, personnel are under-trained, insufficiently qualified, or both. Although the number of students enrolled in IT-related degree programs remains high, longer completion times and student withdrawal rates are leading

to a growing need for well-educated network specialists that will continue for several years.

Without an educational framework that can train highly-qualified specialists, the growth of the IT industry is endangered. For this reason, Cisco Systems® has begun offering two new educational programs for post-secondary educational institutions through the Cisco® Networking Academy® Program: **Fundamentals of Wireless LANs** and **Fundamentals of Network Security**.

These advanced technology courses focus on complex issues in network technology and promote the practical qualification of tomorrow's IT experts as well as enrich the educational palette of the schools by providing "hands-on" experience.

The **Fundamentals of Wireless LANs** is an introductory course about the design, planning, implementation, operation, and troubleshooting of wireless networks while the **Fundamentals of Network Security** course teaches students to design and implement security solutions to reduce the risk of revenue loss and vulnerability.

* Source: IDC, *Worldwide Black Book*, Q2 2004.

FUNDAMENTALS OF WIRELESS LANS

NEW TECHNOLOGY WITH GREAT POTENTIAL

Businesses and administrators are becoming increasingly dependent on wireless technology to perform their day-to-day business activities. WLANs offer users flexibility and allow for easy expansion of IT infrastructure. The immense potential of this new technology is a sure sign that the need for WLAN specialists will grow in the coming years.

COURSE CONTENT

Fundamentals of Wireless LANs teaches students to develop and set up wireless networks and to remedy problems that occur during maintenance of a WLAN. The course focuses on the practical skills needed for the development, planning, implementation, operation and troubleshooting for wireless networks. Current best practices in the fields of technology, security, and IT development will be comprehensively examined.

The Wireless LANs course advances students on a career path toward the following occupations: systems engineer, product support engineer, and systems integrator. For higher-education bound students, this course prepares them for electrical engineering or computer and management information systems degree programs.

FURTHER CONTENT:

- Development of wireless LAN architecture
- Theoretical understanding of the salient technical aspects of WLANs
- Troubleshooting using diagnostic tools
- Command-line service programs

CERTIFICATION

By attending the course Fundamentals of Wireless LANs students will have the opportunity to prepare themselves to take the Cisco Wireless LAN Support Specialist (WLANFE) certification exam.



FOR MORE INFORMATION ABOUT THIS COURSE AND TO VIEW A CURRICULUM DEMO:

<http://cisco.netacad.net/public/academy/catalog/WirelessLANs.html>

FOR MORE INFORMATION ABOUT THE CISCO WIRELESS LAN SUPPORT SPECIALIST CERTIFICATION:

http://cisco.com/en/US/partner/learning/l3/l2/l41/l86/l52/learning_certification_type_home_extra_level.html

FUNDAMENTALS OF NETWORK SECURITY

WITHOUT SECURITY NOTHING WORKS

The severity of dangers posed by computer viruses and hacker attacks is increasing. Each day, more than seven million business computers fall victim to virus assaults - assaults which in 2003 cost approximately US\$55 billion in damages worldwide*. Regardless of where the problems may occur, in routers or switches, in applications or poorly maintained security devices, the need for well-trained IT specialists for network security has never been greater than now.

COURSE CONTENT

Fundamentals of Network Security teaches students about the design and implementation of security solutions that minimize the risk of loss of service and the dangers of attacks. This course is designed with the demands of the real world in mind and concentrates on practical application. The course is an optimal preparation for or will complement other courses of study, such as telecommunications, news transmission, or communications systems.

The Network Security course advances students on a career path toward the following occupations: network security analyst, senior systems analyst, and systems architect. For higher-education bound students, this course prepares them for electrical engineering or computer and management information systems degree programs.

FURTHER CONTENT INCLUDES:

- Design and management of security solutions
- Security technology and security products
- Use of firewalls and routers
- AAA and VPN implementation of routers and firewalls

CERTIFICATION

The Fundamentals of Network Security course offers students the specific knowledge necessary for the SECUR (Securing Cisco IOS Networks) and CSPFA (Cisco Secure PIX Firewall Advanced) examinations, both of which are prerequisites for the Cisco Firewall Specialist certification.



** Statement taken from 'Fraunhofer Institute 2004'.*

FOR MORE INFORMATION ABOUT THIS COURSE AND TO VIEW A CURRICULUM DEMO:

<http://cisco.netacad.net/public/academy/catalog/NetworkSecurity.html>

FOR MORE INFORMATION ABOUT THE CISCO FIREWALL SPECIALIST CERTIFICATION:

http://cisco.com/en/US/partner/learning/l3/l2/l41/l85/l56/learning_certification_type_home_extra_level.html



OUR PROGRAM

Cisco Systems is offering educational institutions practical support and the latest industry knowledge in IT.



The goal of Fundamentals of Wireless LANs and Fundamentals of Network Security is to offer students the most current knowledge of complex networking concepts as well as real-world experience that the future demands. Participating institutions will also have the opportunity to receive discounted pricing on equipment necessary to conduct the hands-on labs included in the courses.

YOUR ADVANTAGES

- Participating Academies will become part of the Cisco Networking Academy Program – a global partnership alliance between public and private sector organizations sponsored by Cisco Systems – which has reached approximately 10,000 educational institutions in more than 150 countries. Close to 1,000,000 students have successfully completed networking and other IT courses offered as a part of the diverse Academy curricula.
- The courses, Fundamentals of Wireless LANs and Fundamentals of Network Security, offer valuable practical experience that complements the existing Networking Academy Program course catalogue and are regularly updated to reflect the rapid developments in network technology.
- By participating in these courses, students will receive important additional qualifications and have the opportunity to acquire a globally-recognized certification that meets the demands of the industry.

STRUCTURE

Online Curriculum

Interactive, Web-based content with diverse multimedia elements and links to background information.

Online Assessments and Quizzes

Individual multiple-choice online exams and quizzes on selected topics of study that probe and test knowledge levels.

Hands-On Labs

Approximately 60 percent of class time is spent on lab exercises, using networking equipment to gain the practical knowledge needed in the industry. This is an opportunity for students to acquire the necessary competencies relevant in today's advanced networking environments.

Final Assessment

A final online exam as well as a final skills-based assessment is conducted under strict examination conditions on all course-relevant topics.

Learning objectives tested in the final exams closely align to certification competency claims in the following certifications.

The Fundamentals of Wireless LANs prepares students for the Cisco Wireless LAN Support Specialist designation. However, students will not be considered 'certified' for this exam, unless they have a valid CCNA® certification.

The Fundamentals of Network Security prepares students for the Cisco Qualified Specialist Security certification, which comprises two exams, 642-501 SECURE and 642-521 CSPFA. Students must hold a valid CCNA certification to be eligible to take these exams. Also, this course helps to prepare students for the CompTIA Security+ certification exam.





REQUIREMENTS:

Universities, colleges, post-secondary, and other non-commercial educational institutions that are interested in offering Fundamentals of Wireless LANs or Fundamentals of Network Security in their course catalogue must participate in the Cisco Networking Academy Program.

If you would like additional information or would like to get involved in the global Cisco Networking Academy Program, please go to:
<http://cisco.netacad.net>.

Academy Locator: <http://www.cisco.com/edu/academylocator>

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THE FUTURE OF EDUCATION

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FUNDAMENTALS OF NETWORK SECURITY

