

## Cisco Networking Academy Program

### Fundamentals of Wireless LANs



**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**

**also fosters local economic growth by providing innovative IT curricula, as well as instructor development and support, to help produce a skilled workforce.**

### Changing the Way People Learn

More than two million students have successfully completed Networking Academy program courses in high schools, colleges, universities, technical institutions, military schools, and community-based organizations around the world. The courses use a blended learning model to integrate face-to-face teaching with challenging online curricula, hands-on lab exercises, realistic network simulations, and an Internet-based assessment tool.

Since its launch in 1997, the Networking Academy program has reached more than 11,000 educational institutions in more than 165 countries, with courses taught in nine languages. This industry-leading program provides an educational framework that prepares graduates for networking and IT-related careers in the public and private sectors, as well as for higher education in engineering, computer science, and related fields.

### Fundamentals of Wireless LANs

As organizations increasingly depend on wireless technologies in their everyday practices, the *Fundamentals of Wireless LANs* course teaches students to develop, implement, and troubleshoot wireless networks. This 70-hour, hands-on, skills-based course focuses on the

design, planning, implementation, operation, and troubleshooting of wireless networks. It includes a comprehensive overview of technologies, security, and design best practices. Students who successfully complete this course will be able to demonstrate the following competencies:

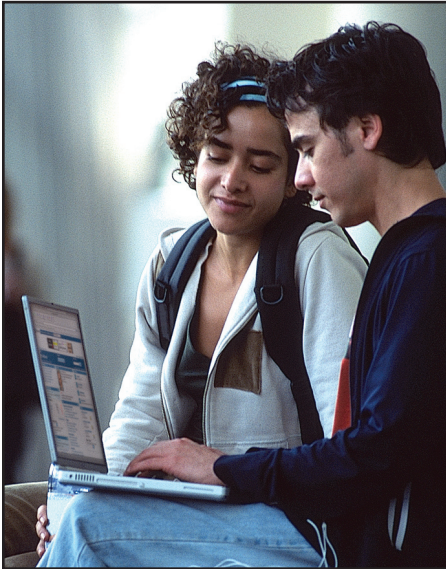
- Design a logical wireless LAN architecture for mobile wireless users in compliance with IEEE 802.11 standards.
- Demonstrate knowledge of the theory regarding the most common factors that influence WLANs (including EM spectrum, radio wave propagation, modulation techniques, and frequency and channel usage in wireless technologies).
- Install internal and building-to-building WLANs with Cisco devices and appropriate antennas that meet mobility and throughput specifications, including the site survey and documentation.
- Perform hardware setup and software configuration of Cisco Aironet® wireless products, including security using Wired Equivalency Privacy (WEP), Cisco LEAP, and 802.1x protocols.
- Upgrade wireless products and troubleshoot performance issues using event logging, command-line utilities, and diagnostic tools.

The *Fundamental of Wireless LANs* course advances students on a career path toward many occupations such as systems engineer, product support engineer, and systems integrator. This course also helps to prepare students for electrical engineering or computer and management information systems degree programs.

### Industry-Recognized Certifications

Successful completion of the *Fundamentals of Wireless LANs* course helps students achieve the Cisco Wireless LAN Support Specialist (WLANFE) designation.





The Cisco Networking Academy Program prepares students for industry-standard certifications as well as vendor-neutral certifications. These include the Cisco CCNA® certification, the Cisco CCNP® certification, Cisco Firewall Specialist, the A+ and Linux certifications administered by CompTIA, and Sun-certified Programmer for Java 2 Platform.

basic networking skills to VLAN troubleshooting, the Networking Academy program courses prepares students for lifelong opportunities in the real world.

Networking Academies offer a range of courses for a variety of careers in network design and administration, technical support, programming or software engineering, and database development and administration. The associate-level CCNA course covers the basic foundations of networking and promotes each student's expertise in this area. The professional-level CCNP course builds on the CCNA curriculum with more complex network configurations, network diagnosis, and troubleshooting.

The *Network Security* course teaches students to design and implement security solutions to reduce the risk of revenue loss and vulnerability.

### For More Information

Cisco Networking Academy Program  
[www.cisco.com/go/netacad](http://www.cisco.com/go/netacad)

Course Catalog  
[www.cisco.com/edu/courses](http://www.cisco.com/edu/courses)

Locate a Networking Academy  
[www.cisco.com/edu/locate](http://www.cisco.com/edu/locate)

### The Networking Academy Program Curricula

At each Networking Academy, certified instructors deliver standards-based, high-quality curricula in specially-equipped labs, where students practice on standard equipment that enables them to apply what they learn. The curriculum is regularly updated with information about new technologies and improved instructional techniques. From



**Corporate Headquarters**  
Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
[www.cisco.com](http://www.cisco.com)  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 526-4100

**European Headquarters**  
Cisco Systems International BV  
Haarlerbergpark  
Haarlerbergweg 13-19  
1101 CH Amsterdam  
The Netherlands  
[www-europe.cisco.com](http://www-europe.cisco.com)  
Tel: 31 0 20 357 1000  
Fax: 31 0 20 357 1100

**Americas Headquarters**  
Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
[www.cisco.com](http://www.cisco.com)  
Tel: 408 526-7660  
Fax: 408 527-0883

**Asia Pacific Headquarters**  
Cisco Systems, Inc.  
168 Robinson Road  
#28-01 Capital Tower  
Singapore 068912  
[www.cisco.com](http://www.cisco.com)  
Tel: +65 6317 7777  
Fax: +65 6317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on the **Cisco.com Website at [www.cisco.com/go/offices](http://www.cisco.com/go/offices).**

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Cyprus • Czech Republic  
Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland • Israel • Italy  
Japan • Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal  
Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden  
Switzerland • Taiwan • Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

© 2006 Cisco Systems, Inc. All rights reserved. Cisco, Cisco Systems, the Cisco Systems logo, and Networking Academy are registered trademarks or trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries. All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0601R)