



Wireless Network Administration & Site Survey

A Five-Day Course

Wireless networks are the fastest growing computer technology. Deploying a wireless network can be as easy as plugging in an access port. However, proper deployment requires knowledge of both networking and radio technologies. Proper design can provide assurance that the radio signals reach where they are needed and don't reach where they are not wanted.

This instructor-led class provides you with an introduction to wireless technologies. You'll learn the foundation of wireless terminology, technologies, standards and protocols, and how to install, manage, and support wireless networks.

This study of wireless networking combines radio frequency (RF) and local area networking (LAN) technology fundamentals. It begins with the basic concepts and building blocks of the convergence between RF and networking technologies. Through the use of real, hands-on training with wireless site survey tools and administration tools, you'll learn wireless technology standards, governing bodies, hardware, RF math, RF behavior, security, troubleshooting, and site survey methodology.

Course Contents

Wireless Networking

- Topologies
- Technologies
- Organizations and Standards
- Infrastructure and Equipment

Radio Frequency Fundamentals

- Theory and Fundamentals
- Spread Spectrum Technology
- Principles of Antennas
- Directional and Omnidirectional

Troubleshooting Wireless LANs

- Interference
- Performance

IEEE 802.11

- Standards Organizations
- LAN Infrastructure
- Station Architecture
- Network Architecture
- MAC and Physical Layers
- Security

Site Survey Fundamentals

- Requirements
- Equipment
- Organization
- Process
- Documentation

Who Should Attend

Network architects, network administrators, IT Auditors, and IT managers and those who are considering adopting wireless technology.

You'll need to have an understanding of TCP/IP networking technologies; this is an intermediate level course.

NOTE: Students are required to bring their own laptop computer.

What You'll Learn

- Wireless terminology, technologies, standards and protocols.
- How to install, manage, and support wireless networks.
- Preparation for CWNA Certification.

What You'll Do

- Configure a wireless infrastructure and clients.
- Implement integrated security features.
- Examine sources of radio interference and solutions.
- Perform a site survey.

What You'll Take Home

- Understanding of the radio and network issues of implementing a wireless network.
- The expertise necessary to evaluate wireless technologies for your wireless network needs.
- Your personal copy of CWNA: *Certified Wireless Network Administrator Official Study Guide*.