



Advanced Wireless Networking & Security Administration

A Five-Day Course

News stories abound with headlines of how wireless networks have been plagued with misuse and abuse. However, understanding how to implement the available security options and how they can be integrated into an enterprise security design can keep your company from appearing in the headlines.

This Advanced Wireless Networking (WiFi) and Security course provides you with what you need to know to protect your information from hackers while still enjoying the advantages wireless provides. This course demonstrates current wireless attacks, taking a look at hacking tools and information available to the hacker, as well as what has to be done to adequately protect the network. The course provides hands-on experience identifying and learning basic hacking techniques.

Your actual experience with these tools that hackers use will give you a new and better understanding of how wireless networks are attacked. This will help you learn how to prevent security threats from becoming security incidents. You'll understand both the hacking process and the defensive measures available to protect your system from wireless attacks.

Course Contents

Wireless Networking

- Risk Analysis
- Security Policies

Wireless Audit Tools

- Stumblers
- Signal Analyzers
- Spectrum Analyzers

Wireless Hacker Tools

- Wireless Sniffers
- WEP Cracking
- Jamming and Flooding

IEEE 802.11 Security

- WEP
- WPA

IEEE 802.1X Security

- EAP
- LEAP
- PEAP

Virtual Private Networks

- Physical Layer
- Network Layer
- Application Layer

Who Should Attend

Network, system, infrastructure, security, LAN, and WAN administrators and designers; IT and security consultants and managers; infrastructure and telecom managers, and Chief Technology and Chief Security Officers, as well as anyone with an interest in the latest security technologies.

You'll need to have an understanding of wireless networking at the level provided by the "Wireless Network Administration and Site Survey" class; this is an advanced level course.

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

What You'll Learn

- How wireless systems are compromised, in order to better secure them.
- Security issues involved with radio communication.
- How to monitor the use and misuse of wireless networks.
- Preparation for CWSP Certification.

What You'll Do

- Examine the WEP design and implementation.
- Use hacker tools to test security options.
- Locate rogue access points.
- Examine wireless network packets.

What You'll Take Home

- Expertise in evaluating authentication and confidentiality options.
- Infrastructure design requirements to adequately secure a wireless network.
- Your personal copy of *CWSP: Certified Wireless Security Professional Official Study Guide*.