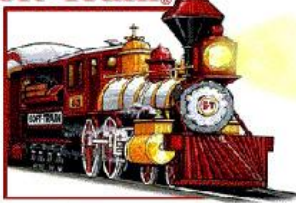


Soft-Train



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Advance Network Security (5 Days) ST45007

COURSE GOAL: To provide the student with the necessary information to be able to perform advanced network security functions.

PREREQUISITES: Knowledge of Network Security and MCSE 2003 Security+

LEARNING OBJECTIVES:

Upon completion of this course, the student will be able to:

- Configure the system for hardening the Firewall, Router, Wireless connections and Network.
- Implement a secure interior
- Add Auditing for security review

KEY TOPICS:

I. Network Security Landscape

- A. State of Network Security
- B. New Approaches to Cyber Security
- C. General Trends
- D. Enterprise Security Methodology
- E. Interfacing with the Organization

II. Security Principles and Practices

- A. Information System Security Principles
- B. Key Principles of Network Security
- C. Formal Processes
- D. Risk Management
- E. Information System Security Management
- F. Access Control
- G. Attacks and Threats

III. Operating System and Applications

- A. Windows Security
- B. UNIX and Linux Security
- C. Web Browser and Client Security
- D. Web Security
- E. Electronic Mail Security
- F. Domain Name System
- G. Server Security

IV. Network Security Fundamentals

- A. Network Protocols
- B. Wireless Security
- C. Network Architecture Fundamentals
- D. Firewalls

- E. Intrusion
Detection/Prevention

V. Communication

- A. What is Cryptography
- B. Principles of
Cryptography
- C. Overview of
Steganography
- D. Core Areas of Network
Security and Their Relation to
Steganography
- E. Secret Communication
- F. Covert Communication
- G. Applications of
Secure/Covert
Communications

VI. The Security Threat and Response

- A. Intrusion Detection and
Response
- B. Intrusion Detection
Management
- C. Honey Pots
- D. Incident Handling
- E. Digital Forensics
- F. Computer Forensics
Defined
- G. Proactive Forensics
- H. Security Assessments,
Testing, and Evaluation

VII. Integrated Cyber Security

- A. Validating Your Security
- B. Data Protection
- C. Putting Everything
Together
- D. The Future