



## Essentials of IS Security

### Module 1—Introduction to Security and Security Investigation Phase

- History of Security
- System Development Life Cycle
- Security in the Organization
- The Need for Security
- Threats
- Current Issues in IS Security, Part 1
- Attacks
- Law and Ethics in Information Systems
- Ethics
- How Attackers Use Hardware/Software to Sniff Traffic
- Security at the Network Level

### Module 2—Security Analysis

- Risk Management
- Risk Identification
- Risk Assessment
- Risk Control Strategies and Risk Mitigation Selection
- Risk Categories of Control
- Other Risk Management Discussion Points
- Risk Assessment in Real Life
- Current Issues in IS Security, Part 2
- Current Deployment of Crypto Tools

### Module 3—Logical Physical Security Design

- Information Security Policy, Standards, and Procedures
- System Design, Security Blueprint, and Security Models
- Security Education, Training, and Awareness
- Continuing Strategy and Planning
- Incident Response, Reaction, and Recovery
- Disaster Recovery and Business Continuity Planning
- Firewalls
- Intrusion Detection Systems
- Cryptography and Encryption, Part 1
- Cryptography and Encryption, Part 2
- Physical Security, Part 1
- Physical Security, Part 2
- Wireless Insecurity
- Current Issues in IS Security, Part 3
- Anti-Virus and SPAM

## Module 4—Implementation and Maintenance of Security

Project Management Phase

Technical Topics of Implementation

The Security Function Within an Organization's Structure

Security Considerations Within an Organization

Information Security Maintenance, Part 1

Information Security Maintenance, Part 2

Information Security Maintenance, Part 3

Identity Management Systems

Different Certifications