

Information Security Management

I. Introduction

Enterprise
Business Systems
Data, Information, Knowledge
Information Systems
Process-based Organization
Documentation
Standards and Procedures
ISO 9000 Certification

II. Threats to Modern Organization

Information Age
Internet, Intranet, Extranet
Network-based Organization
E-Business and E-Commerce
Business Recovery and Continuity Planning
EDI - What is it and how it works?
Information Security

III. Cyber Crime

What is it?
Investigating Computer -related Crime
Threat Categories
Profiles
Information Gathering Techniques
Impersonation/Spoofing
Social Engineering
Computer Virus
Avenues of Attack
Vulnerabilities
General Hacking
Denial of Service
Hybrid Attacks
Piracy and Digital Rights Management
Noteworthy Organizations and Response Teams
Web-site Hacking
Physical Threats

IV. Methodologies, Techniques, and Tools for Providing a Secure Business Environment

Security Architectures and Models
Access Control Systems and Methodology
Design and Develop Secure Systems
Secure Internet Practices
Securing E-Business Applications

V. Implement and Manage Network-based Controls

Networks Technologies

- OSI and ISDN Protocols
- ATM, Frame-Relay, TCP/IP
- Remote Access
- Network Monitoring

Telecommunications and Network Security
Use of Cryptography to Secure Communications and Control EDI Transactions
Applications and Systems Development Security
IPSec Virtual Private Networks

VI. Security Management Practices

Information Security Management
Measure the Impact of both Accidental and Malicious Intrusions
Five Components of a Comprehensive and Effective Program
Information Assurance and Integrity Levels
Building and Information Security Awareness Program

VII. Operations Security

User Verification and Automated Intrusion Detection
Penetration Testing
Secure Voice Communications
Enforcing Information Security Policies, Standards and Procedures (ISO 17799)
Physical Security

VIII. Business Continuity Planning and Disaster Recovery Planning

Law, Investigations and Ethics
Analyzing Risk and Disasters
Building, Maintaining, and Updating a Business Continuity Plan
How to Recover Vital Records
How to Deal with Emotional Trauma after a Disaster
Planning and Crisis management and Operations, Data Center, and Communications Recovery