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Information Security Essentials for IT Auditors

Course Schedule – Topics & Activities

Day One

- Information security management overview
  - Organizational policy, roles, & responsibilities
  - Privacy concepts & requirements
  - Information classification
  - Risk management & analysis
  - Common computer architecture
  - Enterprise security architecture
  - Information security models

- Access to systems
  - Authentication types
  - Access control services
  - Identity management

- Access to data
  - ACLs
  - Rule-based & role-based access controls
  - Capability tables

- Information security monitoring
  - IPS / IDS
  - Audit trail monitoring
  - Audit event types

- Application security
  - DBMS overview
  - Online transaction processing
  - Data warehousing
  - Application environment threats
  - Software development methods
  - Software protection mechanisms
  - System development life cycle

Day Two

- Operations security
  - Secure operations controls
  - Information protection environment
- Cryptography
  - Methods of encryption
  - Symmetric & asymmetric key cryptography
  - Data encryption standard
  - Digital signatures
  - Certification
  - Public key infrastructure
  - E-mail security
  - Internet security using encryption
- Physical security
  - Physical controls goals
  - Physical security threats
  - Crime prevention through environmental design

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Day Three

- Layered defense model
  - Boundary protection
  - Perimeter intrusion detection systems
  - Controls used inside the building

- Business continuity planning
  - Business continuity planning overview
  - Phases of business continuity planning
  - Restoration actions

- Data network overview
  - Network architectures
  - Data network components
  - Data network technologies

- Network protocols
  - OSI network model
  - TCP/IP network protocol
  - Network protocol vulnerabilities

- Network access
  - Authentication protocols
  - User authentication
  - Firewall & perimeter security approaches

Day Four

- Remote access
  - Remote access control techniques
  - Remote access protocols
  - VPNs
  - Telephony
    - Components
    - Vulnerabilities
    - IP telephony

- Wireless networks
  - Wireless network components
  - Wireless protocols
  - Wireless threats & vulnerabilities
  - Wireless controls components

- Vulnerability management
  - Vulnerability life cycle
  - Penetration testing
  - Vulnerability management testing strategies

- Virtualization
  - Types of virtualizations
  - Benefits
  - Issues & risks
  - Protection

*Topics and activities may vary by class and instructor.

Course Duration: up to 4 days
CPE: up to 32

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