



Consulting and Training | Reach New Heights

Course Name

Enterprise IT Security

Sector Name

Information Technology

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Enterprise IT Security

Course Introduction

This training course is designed to provide participants with the fundamental knowledge necessary to plan, implement, and maintain information security in a vendor-neutral format.

This includes risk management, host and network security, authentication and access control systems, cryptography, and organizational security.

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Target Audience

IT managers, security analysts, network engineers, and cybersecurity professionals who want to gain expertise in securing enterprise IT infrastructures, focusing on developing and managing robust security measures, policies, and practices in large organizations.

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Learning Objectives

- ✓ Proactively implement sound security protocols to mitigate security risks.
- ✓ Quickly respond to security issues.
- ✓ Retroactively identify where security breaches may have occurred.
- ✓ Design a network, on-site or in the cloud, with security in mind.

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Course Outline

✓ Day 01

Security Fundamentals

- ✓ Security concepts
- ✓ Risk management
- ✓ Vulnerability assessment

Understanding attacks

- ✓ Understanding attackers
- ✓ Social engineering
- ✓ Malware
- ✓ Network attacks
- ✓ Application attacks

Cryptography

- ✓ Cryptography concepts
- ✓ Public key infrastructure

Network fundamentals

- ✓ Network components
- ✓ Network addressing

✓ Network ports and applications

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Course Outline

✓ Day 02

Securing networks

- ✓ Network security components
- ✓ Transport encryption
- ✓ Hardening networks
- ✓ Monitoring and detection

Securing hosts and data

- ✓ Securing hosts
- ✓ Securing data
- ✓ Mobile device security

Securing network services

- ✓ Securing applications
- ✓ Virtual and cloud systems

Authentication

- ✓ Authentication factors
- ✓ Authentication protocols

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Course Outline

✓ Day 03

Access control

- ✓ Access control principles
- ✓ Account management

Organizational security

- ✓ Security policies
- ✓ User training
- ✓ Physical security and safety

Disaster planning and recovery

- ✓ Business continuity
- ✓ Fault tolerance and recovery
- ✓ Incident response

Understanding Attacks

- ✓ Examining Phishing Attacks
- ✓ Examining Malware
- ✓ Probing a Site

- ✓ Simulating a DOS Attack
- ✓ Cracking Passwords
- ✓ Simulating an Eavesdropping Attack
- ✓ Exploring Application Vulnerabilities
- ✓ Examining SQL Injection Attacks
- ✓ Examining Client-side Attacks

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Course Outline

✓ Day 04

Cryptography

- ✓ Symmetric Encryption
- ✓ Asymmetric Encryption
- ✓ Creating File Hashes
- ✓ Installing a Certificate Authority

Network Fundamentals

- ✓ Using TCP/IP Tools

Securing the Network

- ✓ Configuring a Firewall
- ✓ Examining Website Certificates
- ✓ Securing a WAP
- ✓ Viewing Event Logs
- ✓ Scanning the Network

Securing Hosts and Data

- ✓ Enabling BitLocker

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Course Outline

✓ Day 05

Securing Network Services

- ✓ Finding Vulnerable Code

Authentication

- ✓ Installing a RADIUS Server
- ✓ Examining Active Directory

Access Control

- ✓ Managing NTFS Permissions
- ✓ Managing Active Directory Objects
- ✓ Using Group Policy Objects
- ✓ Creating a Security Template

Disaster planning and recovery

- ✓ Using Windows Server Backup

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