



Consulting and Training | Reach New Heights

Course Name

Introduction to Cyber Security

Sector Name

Information Technology

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Introduction to Cyber Security

Course Introduction

Introduction to Cyber Security is the essential gateway for anyone looking to enter the rapidly growing field of Information Technology (IT) Security. As data breaches and Cyber Threats become more sophisticated, the demand for skilled professionals who understand Network Defense and Digital Forensics has reached an all-time high. This course provides a comprehensive foundation in protecting sensitive information from Unauthorized Access and Cyber Attacks.

In this Introduction to Cyber Security program, you will explore the CIA Triad (Confidentiality, Integrity, and Availability), learn to identify common vulnerabilities like Phishing and SQL Injection, and understand the basics of Firewalls and Encryption. Whether you are aiming for a CompTIA Security+ certification or looking to become an Ethical Hacker, this course equips you with the fundamental skills in Vulnerability Assessment and Incident Response required to safeguard the modern digital landscape.

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Introduction to Cyber Security

Target Audience

- ✓ Individuals new to cybersecurity, including aspiring IT security professionals
- ✓ students, or professionals in IT support
- ✓ network administration
- ✓ software development
- ✓ who are looking to develop foundational cybersecurity knowledge and practices.

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Learning Objectives

- ✓ Understand and apply different data protection strategies.
- ✓ Master Interpreting and analyzing tool output for network mapping/footprinting.
- ✓ Master reducing the attack surface of systems and network devices.
- ✓ Understand how to examine the role of PKI/certificates in building trusted relationships between devices in a network.
- ✓ Master Implementing login security and other identity management solutions.
- ✓ Identify current malware threats, anti-malware solutions, social engineering threats, methods, and techniques.
- ✓ Mastering the analysis of software vulnerabilities and security solutions for reducing the risk of exploitation.
- ✓ Identify physical security controls and the relationship between physical and IT security.
- ✓ Understand legal considerations and investigative techniques when it comes to cybersecurity.

Introduction to Cyber Security

Course Outline

✓ Day 01

Cybersecurity awareness

- ✓ What is security?
- ✓ Confidentiality, integrity, and availability
- ✓ Security baselining
- ✓ Security concerns: Humans
- ✓ Types of threats
- ✓ Security controls
- ✓ What is hacking?
- ✓ Risk management
- ✓ Data in motion vs. data at rest
- ✓ Module review

Network discovery

- ✓ Networking review
- ✓ Discovery, footprinting, and scanning
- ✓ Common vulnerabilities and exposures
- ✓ Security policies
- ✓ Vulnerabilities
- ✓ Module review

Systems hardening

- ✓ What is hardening?
- ✓ Types of systems that can be hardened
- ✓ Security baselines
- ✓ How to Harden Systems
- ✓ Hardening systems by role
- ✓ Mobile devices
- ✓ Hardening the network
- ✓ Analysis tools
- ✓ Authentication, authorization, and accounting
- ✓ Physical security
- ✓ Module review

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✓ Day 02

Security architecture

- ✓ Security architecture
- ✓ Network devices
- ✓ Network zones
- ✓ Network segmentation
- ✓ Network Address Translation
- ✓ Network Access Control
- ✓ Module review

Data security

- ✓ Cryptography
- ✓ Principles of permissions
- ✓ Steganography
- ✓ Module review
- ✓ Public key infrastructure
- ✓ Public key infrastructure
- ✓ Certification authorities
- ✓ Enabling trust
- ✓ Certificates
- ✓ CA management

- ✓ Module review

Identity management

- ✓ What is identity management?
- ✓ Personally identifiable information
- ✓ Authentication factors
- ✓ Directory services
- ✓ Kerberos
- ✓ Windows NT LAN Manager
- ✓ Password policies
- ✓ Cracking passwords
- ✓ Password assessment tools
- ✓ Password managers
- ✓ Group accounts
- ✓ Service accounts
- ✓ Federated identities
- ✓ Identity as a Service
- ✓ Module review

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Course Outline

✓ Day 03

Network hardening

- ✓ Limiting remote admin access
- ✓ AAA: Administrative access
- ✓ Simple Network Management Protocol
- ✓ Network segmentation
- ✓ Limiting physical access
- ✓ Establishing secure access
- ✓ Network devices
- ✓ Fundamental device protection summary
- ✓ Traffic filtering best practices
- ✓ Module review

Malware

- ✓ What is malware?
- ✓ Infection methods
- ✓ Types of malware
- ✓ Backdoors
- ✓ Countermeasures
- ✓ Protection tools
- ✓ Module review

Social engineering

- ✓ What is social engineering?
- ✓ Social engineering targets
- ✓ Social engineering attacks
- ✓ Statistical data
- ✓ Information harvesting
- ✓ Preventing social engineering
- ✓ Cyber awareness: Policies and procedures
- ✓ Social media
- ✓ Module review

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✓ Day 04

Software security

- ✓ Software engineering
- ✓ Security guidelines
- ✓ Software vulnerabilities
- ✓ Module review

Environment monitoring

- ✓ Monitoring
- ✓ Monitoring vs. logging
- ✓ Monitoring/logging benefits
- ✓ Logging
- ✓ Metrics
- ✓ Module review

Physical security

- ✓ What is physical security?
- ✓ Defense in depth
- ✓ Types of physical security controls
- ✓ Device security

- ✓ Human security
- ✓ Security policies
- ✓ Equipment tracking
- ✓ Module review

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✓ Day 05

Incident response

- ✓ Disaster types
- ✓ Incident investigation tips
- ✓ Business continuity planning
- ✓ Disaster recovery plan
- ✓ Forensic incident response
- ✓ Module review
- ✓ Legal considerations
- ✓ Regulatory compliance
- ✓ Cybercrime
- ✓ Module review

Trends in cybersecurity

- ✓ Cybersecurity design constraints
- ✓ Cyber driving forces
- ✓ How connected are you?
- ✓ How reliant on connectivity are you?
- ✓ Identity management
- ✓ Cybersecurity standards
- ✓ Cybersecurity training

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
March 14, 2027	March 18, 2027	5 days	4250.00 \$	Bahrain , Manama
July 5, 2027	July 9, 2027	5 days	4250.00 \$	UAE , Dubai
Aug. 23, 2027	Aug. 27, 2027	5 days	4950.00 \$	England , London
Dec. 28, 2026	Jan. 1, 2027	5 days	4250.00 \$	UAE , Dubai

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