



Consulting and Training | Reach New Heights

Course Name

Cybersecurity Fundamentals Specialist Course

Sector Name

Information Technology

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Cybersecurity Fundamentals Specialist Course

Course Introduction

As digital transformation continues to reshape modern businesses, protecting organisational data and IT infrastructure has become a strategic priority. The Cybersecurity Fundamental Specialist Training program provides essential knowledge and practical skills needed to strengthen cybersecurity awareness, threat detection, and risk management across corporate environments.

This corporate training course is designed for IT professionals, system administrators, security teams, and organisational leaders who want to understand the core principles of information security and cyber risk mitigation. Participants will explore the fundamentals of network security, data protection, threat analysis, and vulnerability management, enabling organisations to better defend against cyberattacks and security breaches.

The program introduces key cybersecurity frameworks and best practices that help companies establish stronger security policies, access controls, and incident response strategies. By developing a clear understanding of common cyber threats such as malware, phishing attacks, ransomware, and unauthorized access, participants can implement proactive measures that safeguard corporate systems and sensitive information.

Through this training, organisations gain the ability to build a more resilient cybersecurity posture, enhance employee awareness, and

support long-term digital security strategies that protect business operations in an increasingly connected world

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Target Audience

- ✓ IT Professionals Transitioning to Security Roles – IT staff (network admins, system admins, developers) who want to expand their skillset to include cybersecurity practices.
- ✓ Junior to Mid-Level Security Analysts – Security team members looking to broaden their understanding of holistic system security and hands-on mitigation strategies.
- ✓ Compliance and Risk Officers – Professionals who need to understand cybersecurity threats and controls in order to assess organizational risks and ensure regulatory compliance.
- ✓ Technical Managers and Team Leads – Leaders responsible for designing, managing, or overseeing secure systems, who need a comprehensive understanding of security components and coordination across roles.
- ✓ Students and Graduates in IT or Computer Science Fields

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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.

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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

Security Architecture

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

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Course Outline

✓ Day 02

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

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

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Course Outline

✓ Day 03

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

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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Course Outline

✓ Day 04

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

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Course Outline

✓ Day 05

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
Oct. 5, 2026	Oct. 9, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Jan. 10, 2027	Jan. 14, 2027	5 days	4250.00 \$	KSA , Riyadh
June 14, 2027	June 18, 2027	5 days	4250.00 \$	UAE , Dubai
Aug. 23, 2027	Aug. 27, 2027	5 days	4950.00 \$	Spain , Madrid

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