

Information Security & Cyber Security Fundamentals Course

IT & IT Engineering
Madrid (Spain)
08 - 12 Sep 2025

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Information Security & Cyber Security Fundamentals Course

Ref: 321492_140373 **Date:** 08 - 12 Sep 2025 **Location:** Madrid (Spain) **Fees:** 4400 **Euro**

Course Description

This intensive 5-day course provides a comprehensive introduction to information security and cyber security concepts, tools, and best practices. Participants will gain practical skills in threat assessment, risk management, and implementing security controls across various IT environments. The course combines theoretical knowledge with hands-on exercises to prepare professionals for real-world security challenges.

Learning Objectives

- Understand core information security and cyber security principles
- Identify and assess common cyber threats and vulnerabilities
- Implement effective security controls and risk management strategies
- Develop incident response and business continuity plans
- Apply security best practices to protect organizational assets
- Understand legal and ethical aspects of information security

Course Modules

Day 1: Introduction to Information Security

- Information security fundamentals and terminology
- CIA triad and security objectives
- Threat landscape and attack vectors
- Risk management frameworks

Day 2: Network and Infrastructure Security

- Network security architecture and protocols
- Firewalls, IDS/IPS, and VPNs
- Cloud security and virtualization
- Wireless network security

Day 3: Application and Data Security

- Secure software development lifecycle
- Web application security
- Cryptography and key management
- Database security and data protection

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Day 4: Identity and Access Management

- Authentication methods and multi-factor authentication
- Access control models and implementation
- Privileged access management
- Identity governance and compliance

Day 5: Security Operations and Incident Response

- Security information and event management SIEM
- Incident detection and response processes
- Digital forensics and investigation
- Business continuity and disaster recovery

Practical Wins for Participants

- Ability to conduct basic security assessments and risk analysis
- Skills to implement fundamental security controls in various IT environments
- Knowledge to develop incident response plans and procedures
- Understanding of security best practices to enhance organizational security posture

A graphic of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a silver knight nearby. In the background, there are concentric white circles on a dark surface.

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