

## Information Security & Cyber Security Workshop

*Barcelona (Spain)*

*30 December 2024 - 3 January 2025*

UK Training

# PARTNER



# Information Security & Cyber Security Workshop

Code: IT28 From: 30 December 2024 - 3 January 2025 City: Barcelona (Spain) Fees: 5100 Pound

## Introduction

In today's digital age, information security and cybersecurity are crucial in safeguarding organizations from increasing cyber threats. This workshop offers participants a comprehensive understanding of how to protect an organization from cyber-attacks, covering the essentials of information security techniques and controls designed to mitigate these risks. You will explore current cyber threats across the internet and their impact on organizational security. Additionally, you will review security terminology, compliance requirements, and gain hands-on experience using tools to reduce vulnerabilities and enhance security.

Upon completion, participants will have a global perspective on the challenges of designing secure systems and gain the necessary skills to help protect their organizations from cyber threats.

## Workshop Objectives

By the end of this workshop, participants will be able to:

- Understand cybersecurity threats and vulnerabilities within organizations.
- Apply information security techniques and controls to protect organizations from cyber-attacks.
- Learn the basics of Information Security Management Systems ISMS.
- Explore data protection principles and methods to safeguard organizational data.
- Analyze social engineering threats, methods, and techniques for mitigation.
- Examine software vulnerabilities and security solutions to minimize the risk of exploitation.
- Identify physical security controls and the integration between physical and IT security.

## Workshop Outlines

### Day 1: Cybersecurity Awareness

- Understanding security principles: confidentiality, integrity, and availability.
- Overview of security baselining and human-related security concerns.
- Exploring various types of cyber threats and their potential impact.
- Introduction to hacking, risk management, and data in motion vs. data at rest.
- Network discovery: scanning, footprinting, and identifying vulnerabilities.

### Day 2: Security Architecture

- Exploring security architecture and its role in protecting networks.
- Understanding network devices, network segmentation, and address translation.
- Importance of network access control and its role in enhancing security.
- Exploring cryptography, data permissions, and steganography.



### Day 3: Identity Management & Network Hardening

- Introduction to identity management and authentication factors.
- The role of password policies, password managers, and federated identities.
- Techniques for network hardening, including limiting remote administrative access and device protection.
- Best practices for traffic filtering and securing network devices.

### Day 4: Software Security & Physical Security

- Understanding software vulnerabilities and implementing security guidelines in software engineering.
- Benefits of environmental monitoring and logging for detecting vulnerabilities.
- Exploring physical security: defense in depth, types of physical security controls, and equipment tracking.
- Reviewing policies to ensure human security and device protection.

### Day 5: Incident Response & Cybersecurity Trends

- Developing an effective incident response plan for cyber disasters.
- Understanding business continuity and disaster recovery planning.
- Insights into the current trends in cybersecurity, cybersecurity standards, and emerging threats.
- The importance of cybersecurity training to stay ahead of potential threats and vulnerabilities.

### Conclusion

This workshop provides a deep dive into information security management and cybersecurity principles, offering participants a comprehensive toolkit to protect organizational data and IT systems. The information security certification gained will equip you with the skills to handle cybersecurity challenges, implement effective information security programs, and perform information security audits. By understanding the interrelation of physical and IT security and staying updated on cybersecurity trends, participants will be able to build more resilient, secure systems for their organizations.



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**BLACKBIRD**  
FOR TRAINING



International House 185 Tower Bridge  
Road London SE1 2UF United Kingdom



+44 7401 1773 35  
+44 7480 775526



Sales@blackbird-training.com



www.blackbird-training.com

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