IT Security Fundamentals

Category: Networking & Security | **Vendor:** Various

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This 5-day instructor-led course serves as an in depth introduction to the field of Information Security - it is not aligned to a specific examination or vendor accreditation and therefore the content will be regularly updated by our curriculum specialists team.

The course allows delegate extensive hands-on experience with a variety of security software and techniques. The content is vendor-agnostic and focuses on general information security.

About This Course

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Who Should Attend

This course is designed for IT professionals and technical managers who want to understand key IT security issues and how best to address them. The course will also be of benefit to IT systems analysts, designers and software developers.

Prerequisites & Entry Requirements

General Prerequisites:

Previous knowledge and use of the Internet is essential, particularly awareness of TCP/IP and standard Internet services such as the World Wide Web, e-mail and DNS. This knowledge can be gained by attending our Introduction to Networking course

The course requires an understanding of Microsoft Windows operating systems; and familiarity with Linux would be an advantage.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

At the end of this course you will be able to:

- Understand the IT security threats faced by a modern network
- Understand the techniques used to mitigate these threats
- Respond to IT security incidents
- Understand IT security policies
- Understand cryptography and its uses
- Understand authentication mechanisms
- Understand the importance of physical security
- Understand the compliance and legal requirements of an organisation

Detailed Course Outline

Introduction to Information Security

- Information Security fundamentals, Information Security models, IS standards, attack overviews.

Risk Management

- Risk management process, risk analysis, risk control.

Operating System Security

- Popular operating systems, OS hardening, vulnerabilities and the patch cycle, OS scanning.

Access Control

- Types of access control, physical access, controlling resource access, Microsoft Windows NTFS, Linux ext3/4, cloud security.

Encryption

- Introduction to cryptography, hashing, encrypting stored data, digital signatures, Public Key Infrastructure (PKI), encrypting network data, Transport Layer Security, virtual private networks.

Authentication

- Authentication mechanisms, good password strategies, Microsoft Windows Kerberos, attacking Windows authentication, Linux authentication mechanisms, certificate-based authentication, biometric authentication.

Legal Compliance& Security Policies

- UK legal regulations, the role of security policies, writing security policies, ensuring business continuity.

Application Security

- General guidelines for application security, securing web applications, securing mail applications, securing databases.

Malware

- Types of malware, malware detection, malware removal, Trojans, rootkits, botnets, Spam delivery

Perimeter Security

- Network designs, mobile workers, firewalls, proxy servers

Attacking TCP/IP

- Weaknesses in TCP/IP, securing network devices, IPSec, Network Intrusion Detection, SNORT.

Wireless Network Security

- Introduction to wireless networking, problems with WEP, WPA2, mobile IP.

Skills You Will Learn:

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Frequently Asked Questions

Q: What delivery options are available for IT Security Fundamentals?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day IT Security Fundamentals course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the IT Security Fundamentals training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for IT Security Fundamentals?

Yes, we provide corporate training, dedicated training, and closed classes for IT Security Fundamentals. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: IT Security Fundamentals, CyberSecurity, SECFUND

Q: Why choose Nexus Human for IT Security Fundamentals?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your IT Security Fundamentals training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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