

Course Outline



Tel: +44 (0) 118 979 4000

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Security for IT Practitioners

Course Description:

This course offers practical training in areas such as TCP/IP, types of attack, applied cryptography, multi-firewalls and intrusion detection systems, Internet and operating system security. The course helps individuals to move into the Internet security arena or to simply gain a broader working knowledge in the field of Information and Internet security, enabling delegates to plan a security policy and implement the latest security related technologies.

Pre-requisites:

Delegates should have an awareness of the concepts of Internet security and some hands-on experience with computers and networks.

Course Content:

- **Introduction to Security**
 - Security Basics
 - Industry Security Standards
 - Security Policies
 - User Authentication
 - Encryption
 - Access Controls
 - Audit and Administration

21a Peach Street Wokingham Berkshire RG40 1XJ

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Registered Office: Grenville Court Britwell Road Burnham Bucks SL1 8DF Company Registered No: 2442290 – VAT registration No:532 1929 56

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- **TCP/IP for Security**
 - Introduction to TCP/IP
 - TCP/IP Architecture
 - LANs
 - IP and ICMP Services
 - IP and Routing
 - Domain Name Service
 - Transport Services

- **Applied Cryptography**
 - Encryption and Trust Relationships
 - Symmetric Key Encryption
 - Asymmetric Key Encryption
 - Hashing Algorithms
 - Digital Certificates
 - PKI Infrastructure

- **Virtual Private Networks**
 - VPN Benefits
 - PPP with PAP and CHAP
 - Tunnelling Protocols
 - Virtual Private Dial-up Networks
 - IPSec
 - Internet Key Exchange (IKE)

- **Types of Attack**
 - Introduction
 - Spoofing or Masquerade
 - Man-in-the-Middle
 - Denial of Service
 - Insider
 - Bug Based
 - Key Logging
 - Brute Force
 - Trojans, Viruses and Worms

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- **Firewall Roles and Types**
 - Introduction
 - Packet Filters
 - Stateful Packet Filters
 - Circuit Level Gateways
 - Application Proxies
 - Other Firewall Issues

- **Firewall Design Topology and Management**
 - Firewall Design Principles
 - Common Firewall Topologies
 - ICMP and Firewalls
 - Firewall Management
 - Configuring the Perimeter Router

- **World Wide Web Security**
 - Introduction
 - Web Technologies
 - Browser Privacy
 - Cookies
 - Mobile Code Threats
 - Web Server Security
 - Web Traffic Security

- **Intrusion Detection Systems**
 - Introduction
 - Methodologies
 - Methods
 - Concerns

- **Operating system security**
 - Introduction
 - Windows Components
 - Linux Components
 - Account Security

- **The Auditing Process**
 - Introduction
 - Ethical Hacking Auditing

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- **The Auditing Process**
 - The Discovery Phase
 - The Penetration Phase
 - Controlling and Covering Tracks
 - Auditing and Log Analysis
 - Windows Log Analysis
 - Linux Logging
 - Making Recommendations and Generating Reports

Course Duration:

5 Days