

Course Outline



Tel: +44 (0) 118 979 4000 Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk Web: www.ptr.co.uk

CISSP Fast Track

Course Description:

The goal of this CISSP training course is to prepare professionals for the challenging security exam CISSP by covering the syllabus as defined in the (ISC)² common body of knowledge.

Certified Information Systems Security Professional (CISSP) is a highly sought after course by those who are looking to make a career in Information Security. Our CISSP training course - 'CISSP Fast Track' is an intensive, in-depth training program that has consistently achieved over 90% pass rates in the final CISSP examination.

Each student will get a CISSP training kit.

This Student kit includes:

-CISSP Training Manuals

-Access to complete CISSP training on self-paced e-Learning (online)

If you don't pass your CISSP exam first time, you are welcome to re-sit the course for free.

Pre-requisites:

Anyone may attend our CISSP course. Preferably delegates with a working knowledge of IT Security. Previous hands-on experience of Information Security is not mandatory, as each delegate will receive access to on-line course material prior to attending. See our Professional Experience Requirement. We will be happy to advise you on your eligibility.

Target Audience: Experienced security professionals who want to expand their knowledge and gain the most sought after security recognized accreditation.

Course Content:

- **The 10 CISSP Domains:**

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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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- **The 10 Domains covered:**
 - Security Management Practices
 - Access Control Systems
 - Telecommunications and Network Security
 - Cryptography
 - Security Architecture and Models
 - Operations Security
 - Application and System Development
 - Business Continuity and Disaster Recovery Planning
 - Law, Investigation and Ethics
 - Physical Security

- **Security Management Practices**
 - Types of Security Controls
 - Components of a Security Program
 - Security Policies, Standards, Procedures, and Guidelines
 - Risk Management and Analysis
 - Threats, Vulnerabilities and Corresponding Administrative Controls

- **Access Control Systems and Methodology**
 - Identification, Authentication, and Authorization Techniques and Technologies
 - Biometrics, Smart Cards, and Memory Cards
 - Single Sign-On Technologies and Their Risks
 - Discretionary versus Mandatory Access Control Models
 - Rule-based and Role-based Access Control
 - Object Reuse Issues and Social Engineering
 - Specific Attacks and Countermeasures

- **Cryptography**
 - Historical Uses of Cryptography
 - Block and Stream Ciphers

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- **Cryptography**
 - Explanation and Uses of Symmetric Key Algorithms
 - Explanation and Uses of Asymmetric Key Algorithms
 - Public Key Infrastructure Components
 - Data Integrity Algorithms and Technologies
 - IPSec, SSL, SSH, and PGP
 - Secure Electronic Transactions
 - Key Management

- **Physical Security**
 - Facility Location and Construction Issues
 - Physical Vulnerabilities and Threats
 - Hardware Metrics and Backup Options
 - Electrical Power Issues and Solutions
 - Fire Detection and Suppression
 - Fencing, Lighting, and Perimeter Protection
 - Physical Intrusion Detection Systems

- **Enterprise Security Architecture**
 - Critical Components of Every Computer
 - Processes and Threads
 - The OSI Model
 - Operating System Protection Mechanisms
 - Ring Architecture and Trusted Components
 - Virtual Machines, Layering, and Virtual Memory
 - Access Control Models
 - Certification and Accreditation
 - Covert Channels and Types of Attacks
 - Buffer Overflows and Data Validation Attacks

- **Law, Investigation, and Ethics**
 - Different Ethics Sets
 - Computer Criminal Profiles

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- **Law, Investigation, and Ethics**
 - Types of Crimes
 - Liability and Due Care Topics
 - Privacy Laws and Concerns
 - Complications of Computer Crime Investigation
 - Types of Evidence and How to Collect It
 - Forensics
 - Legal Systems

- **Telecommunications, Networks, and Internet Security**
 - TCP/IP Suite
 - LAN, MAN, and WAN Topologies and Technologies
 - Cable Types and Issues
 - Broadband versus Baseband Technologies
 - Ethernet and Token Ring
 - Network Devices
 - Firewall Types and Architectures
 - Dial-up and VPN Protocols
 - DNS and NAT Network Services
 - FDDI and SONET
 - X.25, Frame Relay, and ATM
 - Wireless LANs and Security Issues
 - Cell Phone Fraud
 - VoIP
 - Types of Attacks

- **Business Continuity Planning**
 - Roles and Responsibilities
 - Liability and Due Care Issues
 - Business Impact Analysis
 - Identification of Different Types of Threats
 - Development Process of BCP
 - Backup Options

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- **Applications & Systems Development**
 - Software Development Models
 - Prototyping and CASE Tools
 - Object-Oriented Programming
 - Middleware Technologies
 - ActiveX, Java, OLE, and ODBC
 - Database Models
 - Relational Database Components
 - CGI, Cookies, and Artificial Intelligence
 - Different Types of Malware

- **Operations Security**
 - Operations Department Responsibilities
 - Personnel and Roles
 - Media Library and Resource Protection
 - Types of Intrusion Detection Systems
 - Vulnerability and Penetration Testing
 - Facsimile Security
 - RAID, Redundant Servers, and Clustering

Course Duration:

5 Days