

Course Outline



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

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

Managing Robust PKI Services

Course Description:

A 3-day course which is considered essential for anyone who will be administering a Managed PKI solution. It covers the issues and technologies involved in PKI in depth and gives hands-on practical experience of setting up and maintaining a PKI solution.

This course is aimed at anyone involved in decision making, implementing and securing e-commerce and other Internet applications, including: CIOs, Chief Security Officers, MIS Directors, Security Managers, and Internal Auditors.

Pre-requisites:

Solid understanding of the Internet and World Wide Web technologies.

Course Content:

- **The House of Security**
 - Security principles for e-commerce
 - Digital authentication
 - Data integrity across the Internet
 - Non-repudiation criteria
 - Creating a digital identity
 - The concept of a certification authority
 - The legal and procedural environment

- **Basic cryptography**
 - Early cryptography
 - Cryptographic techniques
 - Common symmetric key algorithms
 - Data Encryption Standard (DES)
 - Ideal cryptographic system

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- **Asymmetric cryptography and digital signatures**
 - Diffie-Hellman key exchange
 - Public key cryptography
 - RSA public key cryptography
 - Signing electronic messages
 - Message digests
- **The role of digital certificates**
 - Need for digital certificates
 - Public key substitution
 - Basic certificate contents
 - X.509 certificate attributes
 - Assurance/cost trade-off
- **PKI and certification authorities**
 - What is a public key infrastructure?
 - Certification authority
 - Certification practices statement
 - Public vs. private certification authorities
 - In-house, outsourced, hybrid solutions
 - VeriSign Trust Network
- **VeriSign Managed PKI**
 - Exploring the VeriSign Managed PKI solution
- **Lifecycle management**
 - Issuing a certificate
 - Key escrow and recovery
 - Certificate renewal
 - Certificate revocation
- **PKI standards**
 - X.509
 - RSA's role in standards (PKCS)
 - Secure Sockets Layer, SSL (TLS)
 - S/MIME
 - Internet Protocol Security – IPSEC
- **Infrastructure**
 - LDAP

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- **Infrastructure**
 - Smart cards
 - Software based roaming solutions
 - Active directory
 - Kerberos
 - PKI toolkits
- **Advanced product integration**
 - Go Secure! Products

Course Duration:

3 Days

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