



## Managing VeriSign PKI Services

*VeriSign Certified Administrator (VCA) Certification*

Length : 4 Days

### Overview

Managing VeriSign Public Key Infrastructure (PKI) Services is a 4-day training course that gives IT professionals the skills and understanding they need to evaluate and justify digital certificates and PKI solutions within their organizations. The VeriSign Managed PKI product line will be used to provide the IT professional with a better understanding of what is involved in managing Public Key Infrastructures. This course provides several hands-on labs with real life examples of how the VeriSign PKI solutions are implemented. Upon completion of this course, the IT professional will be accredited with the VeriSign Certified Administrator (VCA) Certification.

### Who should take this class?

Anyone involved in PKI decision-making, implementing and securing e-commerce and other Internet applications, including CIOs, Chief Security Officers, MIS Directors, Security Managers, and Internal Auditors.

### What you will learn

- PKI foundations and why is it imperative in today's market
- Evaluating and selecting PKI technologies
- Developing a business case for PKI, including total cost of ownership
- Understanding the benefits of certificates in digital commerce
- Selecting the right architecture, infrastructure, and practices for an enterprise PKI
- Enabling directories with digital certificates
- Installing and configuring Managed PKI
- Managing the certificate lifecycle using Managed PKI
- Customizing Managed PKI to meet your business needs

### About the labs

- Configuring VeriSign Managed PKI with the policy wizard
- Functionality within the Managed PKI control center
- Exploring authentication and revocation options
- S/MIME e-mail
- Integrating certificates using LDAP
- SSL certificates and web servers
- Using Go Secure! for web applications and digital notarization

### MSC Trustgate.com Training Programme

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### Course Outline

#### Module 1: The House of commerce

- 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

#### Module 2: Basic cryptography

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

#### Module 3: Asymmetric cryptography and digital signatures

- Diffie-Hellman key exchange
- Public key cryptography
- RSA public key cryptography
- Signing electronic messages
- Message digests

#### Module 4: The role of digital certificates

- Need for digital certificates
- Public key substitution
- Basic certificate contents
- X.509 certificate attributes
- Assurance/cost trade-off

#### Module 5: 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

#### Module 6: VeriSign Managed PKI

- Exploring the VeriSign Managed PKI solution

#### Module 7: Lifecycle management

- Issuing a certificate
- Key escrow and recovery
- Certificate renewal
- Certificate revocation

#### Module 8: PKI standards

- X.509
- RSA's role in standards (PKCS)
- Secure Sockets Layer, SSL (TLS)
- S/MIME
- Internet Protocol Security - IPSEC

#### Module 9: Infrastructure

- LDAP
- Smart cards
- Software based roaming solutions
- Active directory
- Kerberos
- PKI toolkits

#### Module 10: Advanced product integration

- Go Secure! products

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