

Module 1: Preparing to Secure Information**Lessons**

- Explaining How Assets Are Attacked
- Explaining How Assets Are Secured

Lab A: Preparing to Secure Information**Module 2: Implementing Security-Enhanced Computing Baselines****Lessons**

- Introduction to Trusted Computing Bases
- Establishing a Security Baseline
- Monitoring a Security Baseline
- Helping to Secure Computers Physically
- Maintaining a Security Baseline

Lab A: Maintaining Baseline Security**Module 3: Helping to Protect Information Using Authentication and Access Control****Lessons**

- Introduction to Access Control
- Implementing an Authentication Strategy
- Implementing an Access Control Strategy

Lab A: Securing Accounts (MBSA)**Module 4: Using Cryptography to Help Protect Information****Lessons**

- Introduction to Cryptography
- Using Symmetric Encryption
- Using Hash Functions
- Using Public Key Encryption

Lab A: Using Cryptography to Help Protect Information

Module 5: Using a PKI to Help Protect Information

Lessons

- Introduction to Certificates
- Introduction to Public Key Infrastructure
- Deploying and Managing Certificates

Lab A: Using Certificates

Module 6: Securing Internet Applications and Components

Lessons

- Helping to Protect Web Servers
- Configuring Security for Common Internet Protocols
- Configuring Security for Web Browsers
- Configuring Security for Databases

Lab A: Securing Web Servers

Lab B: Protecting Clients from Active Content

Module 7: Implementing Security for E-Mail and Instant Messaging

Lessons

- Securing E-Mail Servers
- Securing E-Mail Clients
- Securing Instant Messaging

Lab A: Securing Mail Servers

Module 8: Managing Security for Directory Services and DNS

Lessons

- Helping protect Directory Services Against Common Threats
- Helping Protect DNS Against Common Threats

Lab A: Managing Security for Directory Services and DNS

Module 9: Securing Data Transmission**Lessons**

- Identifying Threats to Network Devices
- Implementing Security for Common Data Transmission
- Implementing Security for Remote Access
- Implementing Security for Wireless Network Traffic

Lab A: Securing Data Transmission**Lab B: Using IPSec to Secure Data Transmission****Module 10: Implementing and Monitoring Security for Network Perimeters****Lessons**

- Introduction to Network Perimeters
- Implementing Security on Inbound and Outbound Network Traffic
- Monitoring Network Traffic

Lab A: Implementing and Monitoring Security for Network Perimeters**Module 11: Managing Operational Security****Lessons**

- Establishing Security Policies and Procedures
- Educating Users about Security Policies
- Applying Security Policies to Operational Management
- Resolving Ethical Dilemmas When Helping to Protect Assets

Lab A: Managing Operational Security**Module 12: Preserving Business Continuity****Lessons**

- Preparing to Recover from Disasters
- Communicating the Impact of Risks
- Performing a Security-Enhanced Backup and Recovery

Lab A: Preserving Business Continuity

Module 13: Responding to Security Incidents

Lessons

- Identifying Security Incidents
- Responding to Security Incidents
- Investigating Security Incidents

Lab A: Responding to Security Incidents

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