

Control & Security of Web Applications HANDS-ON

COURSE DURATION: 2-days

CPE HOURS: 16

LEVEL: Beginner / Group-Live

PREREQUISITES: None

ADVANCE PREPARATION: None

Now that the Internet is part of everyday life, web applications are an essential component of every business activity. Customers and trading partners expect fast, accurate and secure applications with robust functionality. Companies want sites that are easy to maintain and update, yet cost effective. Auditors and security officers want to ensure that the web applications are controlled and that there is strong data integrity. All of these requirements need to be blended to ensure that each web application meets the company's goals, satisfies the customers and trading partners, and is secure and reliable. This seminar is specifically designed to explain and provide auditors and security officers with an approach to assist them in auditing and controlling web applications. Participants will gain hands on knowledge of the vulnerabilities threatening their internet presence, learn techniques required to assist them with their web application audits and security assessments, and will receive an audit guide to assist them with their next web application audit.

WHO SHOULD ATTEND

This seminar is intended for IT auditors and Security Officers who will be performing technical reviews of web applications, and for financial auditors who will be performing application audits in the web environment. Please note that attendees of this course should bring a laptop with the following requirements: Local admin rights, Windows 2000 or XP Pro OS, network enabled with an Ethernet port and a CD-ROM drive.

SEMINAR OUTLINE

I Introduction

- What are web applications
- Internet/Intranet fundamentals
- Web architecture
- Web server functionality
- E-Commerce

II Understanding Web Applications

- Web site development
- Web site data integrity
- Web site testing
- Best Practices for Developing/Maintaining Web Applications
- Policy and guidelines for Web applications
- Legal considerations
- Risk/Control tables
- Control & security checklists

III Types of Web Applications

- Sales & Product support
- Banking & financial services
- Procurement and trading partner services
- Promotion
- Investor relations
- Recruitment and employee services
- Education and training
- Risk/Control tables
- Control & security checklists

IV Auditing Web Applications

- Need for thorough documentation

- Configuration
- Optimization
- Site Integrity
- Performance
- Maintenance
 - Control over updates
 - Outdated information
- Reliability
- Risk/Control tables
- Control & security checklists

V Authentication

- Customer and trading partner authentication
 - Account setup
 - Authentication techniques
 - Automated authentication support
- Customer maintenance
 - Inactive account procedures
 - Consolidating duplicated customer accounts
 - Automated customer contact procedures
- Risk / Control tables
- Control & security checklists

VI Encryption

- Types of encryption
- Etrust & other technologies
- Customer support & assistance
- Confirm encryption and data integrity
- Risk/Control tables
- Control & security checklists

VII Security

- Web vulnerabilities
 - Types of unauthorized access
- Network Security
 - Firewalls
 - Routers
 - Intrusion detection & monitoring
 - Virus detection & monitoring
 - Encryption
- Operating system security
 - Windows NT
 - Unix
 - Novell
- Security tools
 - Scanners
 - Password crackers
 - Exploiters
 - Sniffers, Misc
- Business continuance and disaster preparedness
- Hacker sites
- Risk/Control tables
- Control & security checklists

VIII New Technologies

- Emerging technologies
- Integrating new technology into web applications