

FAC-P/PM-IT: Security, Accessibility and Quality

Workshop Course U212 • 4 DAYS



You Will Learn How To:

- Protect assets by selecting and managing effective security controls
- Evaluate the thoroughness and quality of the security controls
- Do more than just “Security Theater”
- Provide a comprehensive strong defense and continuously monitor it
- Integrate accessibility into services and environments



Active Learning Workshop:

- Testing a real-world scenario workplace and server environment
- Performing assessment of current assets and management systems
- Categorizing your systems and determining the appropriate security controls
- Implementing and assessing security controls
- Creating performance metrics and quality control measures
- Simplifying enabling accessibility through the use of visual tools

About This Course: This course is right for anyone tasked with selecting, implementing and evaluating information system security controls. Mature frameworks and generally accepted practices aid in producing a strong, comprehensive security posture. This course is helpful for federal agencies seeking FISMA compliance, but is beneficial anyone seeking a comprehensive Risk Management Framework.

Course Content ► Workshop Course U212 • 4 DAYS

Introduction

- Applying defense in depth: tools, techniques and people
- Comprehending FISMA and OMB oversight
- Assimilating Risk Management Framework Security Life Cycle

Risk Management Framework

Multi-tiered risk management

- Organization: Strategic risk management
- Mission/Business: Tactical approach to risk
- Information Systems

Defining roles and responsibilities

- Distinguishing hierarchy and key roles of risk management
- Defining responsibilities assigned to specific roles
- Separating roles and areas of responsibility

Phases of risk management

- Categorizing information systems
- Selecting security controls
- Implementing security controls
- Assessing security controls
- Authorizing information systems
- Monitoring security controls

Information Assurance

Introducing information assurance

- Assuring security throughout the data life cycle
- Integrating information assurance into software development
- Building in “secure by design”
- Implementing information assurance best practices
- Ensuring component security

Penetration testing and vulnerability assessments

- Validating security functions and configuration
- Finding weaknesses within systems before the attacker does

Keeping current with information assurance

- Full disclosure vs. responsible disclosure
- Exploring vulnerability databases

Information Systems and Network Security

Modularization (the OSI 7 Layer Model)

- Networking principles powering the Internet
- Modeling a packet

Confidentiality, integrity and availability across the network

- Encrypting for confidentiality
- Sniffing the network and protocol analysis
- Modifying data via man-in-the-middle attacks

Networking services and security

- Poisoning the DNS cache
- Incorporating core services including DHCP, ICMP and ARP
- Hardening the TCP/IP stack

Authentication and Access Control

Authenticating users

- Managing factors of authentication (something you know, have, or are)
- Attacking passwords
- Comprehending PKI and public key authentication systems
- Evaluating the suitability of biometrics
- Integrating multi-factor authentication

Authenticating hosts

- Incorporating ARP, DHCP, DNS and protocol insecurities
- Performing and detecting MAC and IP address spoofing
- Achieving strong host authentication
- Analyzing Kerberos and IPsec

Cryptography

Encrypting and exercising integrity functions

- Capitalizing on asymmetric or Public Key cryptography
- Applying symmetric cryptography
- Exercising message digest functions for integrity

Certificates and Certification Authorities

- Clarifying PKI and certificate fields
- Publishing certificate revocation and certificate security

Digital signatures

- Digitally signing for strong authentication
- Proving authentication, integrity and non-repudiation

Accessibility

- Promoting open data policies
- Removing barriers to enhance accessibility for people
- Enabling IT accessibility

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— D. Ridley, General Manager, Technical Services, Samsung ”



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