Secure Software Development Life Cycle (SDLC)

Duration 2 Days

COURSE DESCRIPTION

This course is an intensive 2-days course that provides the principles of Secure Software Development Life Cycle (SSDLC) and practical methods to secure requirements, Design, Implementation, Testing, Deployment and Maintenance your software development.

COURSE OBJECTIVES

- To understand how to establish secure software development life cycle processes within your Organization
- To understand how to assess security requirements for software development
- To understand software vulnerability
- To understand how to evaluate security risks to your software

COURSE OUTLINE

- **Module 1: Introduction to software security**
  - Topology of an Application Attack
  - Challenge
  - Attacker vs Defender
  - Cost of Software Security

- **Module 2: SDLC Model**
  - Waterfall
  - Iterative
  - Spiral
  - Extreme Programming(XP)
  - Scrum
  - SSDLC

- **Module 3: Software Security**
  - Risk Management
  - Security Profile
  - Governance
  - Compliance and Privacy
  - Methodologies and Frameworks
  - Trusted Computing
  - Acquisitions

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- **Module 4: Requirement phase**
  - Security Requirement
  - Requirements Elicitation Techniques
  - Policy Decomposition
  - Data Classification
  - Subject/Object Modeling
  - Use/Misuse Case Modeling
  - Requirements Documentation

- **Module 5: Design phase**
  - Secure Design Principle
  - Views
  - Security Models
  - Design Considerations
  - Threat Modeling
  - Architectures
  - Technologies
  - Design Review

- **Module 6: Implementation phase**
  - Programming Concepts
  - Methodologies
  - Software Attacks
  - Secure Software Process
  - Build Environment Security

- **Module 7: Testing phase**
  - Software Quality Assurance
  - Security Testing

- **Module 8: Deployment, Operations, Maintenance and Disposal Phase**
  - Hardening
  - Secure Installation
  - Configuration Management
  - Post Deployment Assessment
  - Continuous monitoring
  - Incident Management
  - Problem Management
  - Secure Disposal

WHO SHOULD ATTEND

Application developer, Software development project manager, IT auditor, Tester, Software Quality Assurance (SQA), Software Engineer, Information Security officer, Database administrator

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