

Course Introduction

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 how to evaluate security risks of the software projects

Course Highlights

- Free membership for ACIS Alumni
 - Access to the latest information related to the course subjects
 - A life-time class re-sit

Learning Level

- Foundation

Course Duration

- 2 Days (12 Hours)

Prerequisites

- None

Target Group

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

Course Outline

Session 1: Introduction to Software Security

- Software security
- Security as a property of software
- Exploitable defects in software lead to vulnerabilities
- Topology of an Application Attack
- Software Security Vulnerabilities Reported
- Cost of Software Security Vulnerabilities

- The Software Project Triangle
- Challenges to Developing Secure Software
- Security Enhancing the Software Development Lifecycle
- Software Security Problems are Complicated

Session 2: Security throughout the Application Lifecycle

Module 1: Requirements Phase

- Principles of the Requirements Phase
- Security Requirements
- Requirements Phase: Misuse and Abuse Cases

Module 2: Design Phase

- Principles of Secure Design
- Security in the Design Phase
- Threat Analysis
- Threat Modeling Process
- Architectural Risk Analysis
- Risk Analysis Must be External to the Development Team
- Risk Assessment Methodologies

Module 3: Implementation Phase

- Secure Implementation Concepts
- Validating Inputs
- Secure Coding Guides
- Code Review

Module 4: Testing Phase

- Testing strategy
- What parts of software to test
- Lifecycle timing of security reviews and tests
- Software security testing tools

Module 5: Deployment Phase

- Post-Deployment Validation

Module 6: Maintenance Phase

- Maintenance Phase Security Activities

Recommended Courses

- PHP : How to Write a Secured PHP Code

- ASP : How to Write a Secured ASP Code
- JSP : How to Write a Secured JSP Code
- CSSLP : The Official CSSLP CBK Review Seminar (Accredited Training by ISC²)

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