



course: Fundamentals of Secure Software Development Training

City: Amsterdam Hotel: Hotel Okura Amsterdam

 Start Date :
 2025-11-24
 End Date :
 2025-11-28

 Period :
 1 Week
 Price :
 5950 \$

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Course Overview

In today's digital landscape, software vulnerabilities can have significant impacts on business operations, reputation, and security. Secure software development is essential to protect applications from potential threats and ensure the confidentiality, integrity, and availability of data.

This Fundamentals of Secure Software Development training course provides participants with essential knowledge and practical skills to design, develop, and maintain secure applications. It combines theoretical concepts with hands-on exercises to help participants understand secure coding practices, threat modeling, vulnerability management, and compliance requirements.

Course Objectives

By the end of this course, participants will be able to: Understand secure software development principles and lifecycle Identify and mitigate common software vulnerabilities Apply secure coding practices in different programming environments Conduct threat modeling and risk assessment for applications Implement security testing and vulnerability scanning techniques Integrate security into software design, development, and deployment Ensure compliance with industry standards and best practices Enhance application resilience against cyber threats

Target Audience

This course is ideal for: Software Developers and Engineers **Application Architects DevOps Engineers** QA and Test Engineers IT Security Professionals

Project Managers involved in software development

Technical Leads and Team Supervisors responsible for secure coding practices

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Methodology

The course uses a combination of interactive lectures, real-world case studies, hands-on coding exercises, group discussions, and scenario-based labs. Participants will engage in practical exercises to apply secure development techniques and perform vulnerability assessments in a controlled environment.

Course Outline

Day 1 - Introduction to Secure Software Development

Principles of secure software development

Software Development Life Cycle (SDLC) and security integration

Common software vulnerabilities and threats

Security standards and regulatory requirements

Day 2 - Threat Modeling and Risk Assessment

Identifying potential threats and attack vectors

Conducting risk assessments for software projects

Threat modeling techniques and frameworks

Hands-on exercise: creating threat models for sample applications

Day 3 - Secure Coding Practices

Secure coding guidelines and best practices

Input validation, output encoding, and authentication

Managing sensitive data securely

Preventing common vulnerabilities (e.g., SQL Injection, XSS, CSRF)

Day 4 - Security Testing and Vulnerability Management

Static and dynamic code analysis

Penetration testing and vulnerability scanning

Integrating automated security tools in DevOps pipelines

Hands-on lab: identifying and fixing vulnerabilities in sample code

Day 5 - Deployment, Compliance, and Continuous Improvement

Secure deployment and configuration management

Monitoring and maintaining application security

Compliance with industry standards (OWASP, ISO, NIST)

Continuous security improvement and incident response

Final workshop: securing a full software development project







Certificates

On successful completion of this training course, HighPoint Certificate will be awarded to the delegates. Continuing Professional Education credits (CPE): In accordance with the standards of the National Registry of CPE Sponsors, one CPE credit is granted per 50 minutes of attendance.