Global Horizon
TRAINING CENTER

Training Course:
Security Development

31 March - 4 April 2025
Liverpool (UK)

Training Course:
Security Development

Introduction:

In today's digital era, ensuring the security of software and systems is crucial for protecting sensitive data and maintaining trust. Security Development is the practice of integrating security measures into every phase of the software development lifecycle, from initial design to deployment and maintenance. This program aims to provide participants with the knowledge and skills needed to build secure software, identify and mitigate vulnerabilities, and implement robust security protocols.

Target Audience:

- Software Developers

- IT Security Professionals

- DevOps Engineers

- Project Managers

- System Administrators

- IT Auditors

- Anyone interested in learning about secure software development practices

Objectives:

1. Understand the principles and importance of secure software development.

2. Learn to identify and prevent common security vulnerabilities.

3. Gain practical experience with security tools and techniques.

4. Develop skills for performing security testing and code reviews.

5. Implement security best practices throughout the software development lifecycle.

Outlines:

Day 1:

Introduction to Security Development

- Overview of security in the software development lifecycle SDLC

- The importance of integrating security from the start

- Key security principles and concepts

- Understanding threats and attack vectors

- Case studies of notable security breaches and their impact

Day 2:

Identifying and Mitigating Security Vulnerabilities

- Common software vulnerabilities e.g., OWASP Top Ten

- Methods for identifying vulnerabilities in systems and processes

- Best practices for vulnerability management

- Introduction to threat intelligence and its use in vulnerability identification

- Real-world examples of vulnerability mitigation

Day 3:

Security Assessments and Reviews

- Overview of security assessment methodologies

- Conducting risk assessments and threat modeling

- Security auditing and compliance checks

- Tools and techniques for non-coding security assessments

- Case studies of effective security reviews

Day 4:

Implementing Security in DevOps

- Introduction to DevSecOps and its importance

- Integrating security into Continuous Integration/Continuous Deployment CI/CD pipelines without coding

- Automated security testing tools and their role in DevOps

- Secure configuration management and infrastructure as code IaC

- Monitoring and logging for security purposes

Day 5:

Advanced Security Topics and Best Practices

- Basics of cryptography and its application in software security

- Secure software design principles and patterns

- Incident response and recovery planning

- Building a security-aware organizational culture through training and awareness programs

- Developing and implementing security policies and procedures

Registration form on the Training Course: Security Development

Training Course code: IT235426 From: 31 March - 4 April 2025 Venue: Liverpool (UK) - Training Course Fees: 5775 ⬜ Euro

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