# Certified Java and Web application security Training

Duration: **3 Day**

BİLGİNÇ IT Academy
info@bilginc.com
bilginc.com

## Overview

This intensive training provides Java developers with the expertise to**secure their web applications** against common and advanced threats.
Participants will explore **OWASP Top 10**, **SEI CERT**, and **Spring Security** to prevent issues such as**SQL Injection, XSS, Race Conditions, Log4Shell**, and **Spring2Shell**.
Hands-on labs ensure practical application of security concepts through real-world coding exercises.

### Regulatory Compliance (BDDK)

Fully aligned with the **Regulation on Banks' Information Systems and Electronic Banking Services** (Articles 20, 22, 23, 25).

Key compliance areas:

- Secure software development lifecycle (Article 20)
- Versioning and change management (Article 22)
- Security testing and vulnerability assessment (Article 23)
- Information security awareness (Article 25)

Ideal for **banks, financial institutions, and regulated industries** requiring compliance training.

## Who Should Attend

Java developers, software engineers, security analysts,
and professionals in **banking or regulated sectors** responsible for application security.

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## What You Will Learn

By the end of this training, you will have gained knowledge and skills in the following areas:

- Identify and fix OWASP Top 10 vulnerabilities in Java applications.
- Implement secure coding to prevent injection, XSS, and race conditions.
- Use Java and Spring Security features effectively.
- Harden authentication and session management.
- Perform vulnerability assessments using SAST and DAST tools.
- Mitigate modern threats such as Log4Shell and Spring2Shell.
- Apply SEI CERT and Saltzer-Schroeder security principles.

Graduates of this course will be able to:

- Develop and maintain **secure Java applications**,
- Conduct **vulnerability assessments**,
- Ensure full **compliance with BDDK secure coding and testing standards**.

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## Outline

**Day 1:**

- IT Security foundations and OWASP Top 10
- SQL, OS, and XML Injection
- XSS attack analysis and prevention

**Day 2:**

- Authentication, session handling, CSRF defense
- Logic flaws, race conditions, file upload security
- Business logic and path traversal

**Day 3:**

- Java and Spring Security deep dive
- EL Injection, AOP-based security, endpoint protection
- Static and dynamic testing with Burp, ZAP, SQLMap
- Secure coding principles and exam preparation

### Certification

- Online APMG multiple-choice exam
- 60 questions, 50% pass mark
- Proctored remotely via the APMG Candidate Portal