

# MASTERING SPRING AND SPRING BOOT (TT3335)

Course Code: 101040

Spring Developer Boot Camp is a hands-on Spring training course geared for experienced Java developers who need to understand what the Spring Framework is in terms of today's systems and architectures, and how to use Spring in conjunction with other technologies and frameworks.

**Mastering Spring and Spring Boot** is a hands-on Spring training course geared for experienced Java developers who need to understand what the Spring Framework is in terms of today's systems and architectures, and how to use Spring in conjunction with other technologies and frameworks. This leading-edge course provides added coverage of Spring's Aspect-Oriented Programming and the use of Spring Boot. Students will gain hands-on experience working with Spring, using Maven for project and dependency management.

The Spring framework is an application framework that provides a lightweight container that supports the creation of simple-to-complex components in a non-invasive fashion. Spring's flexibility and transparency is congruent and supportive of incremental development and testing. The framework's structure supports the layering of functionality such as persistence, transactions, view-oriented frameworks, and enterprise systems and capabilities. This course targets Spring 6.x and Spring Boot 3.x, which includes full support for Java SE 17 and Java SE 21.

Spring makes enterprise development easier. Spring simplifies common tasks and encourages good design based on programming to interfaces. Spring makes your application easier to configure and reduces the need for many JEE design patterns. Spring puts the OO design back into your JEE application, and it integrates nicely with many view technologies and the new features of HTML5.

Note that our Spring curriculum covers a wide spectrum and is highly modularized. As such, we can customize courses to your specific needs. The following is a high-level listing of Spring topics to consider in building your customized Spring training:

- Core Spring Framework (including Inversion of Control, Dependency Injection, and Aspect-Oriented Programming)
- Advanced Framework Features and Projects (including Spring Boot, Handling Application Events, and Spring Security)
- Spring and Persistence (including Spring DAOs, Transactions, and Spring Data)

- Spring and the Web (including Spring MVC and Web Flow supporting WebSockets, HTML5, and asynchronous processing)
- Integrating Spring into the Enterprise (including Spring Integration working with JMS and other remoting options)
- Spring and Persistence (including Spring DAOs, Transactions, and Spring Data)
- Reactive Programming in Spring using Project Reactor

## What You'll Learn

This 'skills-centric' course is about **50% hands-on lab and 50% lecture**, designed to train attendees in Java and Spring development skills, coupling the most current, effective techniques with the soundest industry practices. Working within an engaging, hands-on learning environment, guided by our expert team, attendees will learn:

- Explain the issues associated with complex frameworks such as JEE and how Spring addresses those issues
- Understand the relationships between Spring and JEE, AOP, IOC and ORM.
- Write applications that take advantage of the Spring container and the declarative nature of assembling simple components into applications.
- Understand how to configure the Spring Boot framework
- Understand and work on integrating persistence into a Spring application
- Work with Spring Boot to facilitate Spring setup and configuration
- Apply Aspect Oriented Programming (AOP) to Spring applications
- Use Spring Data JPA to implement the persistence layer of an application
- Develop REST applications using Spring 5
- Work with Spring Boot to facilitate Spring setup and configuration

## Who Needs to Attend

This introduction to Spring development course requires that incoming students possess intermediate-level Java programming skills and practical hands-on Java experience. This class is geared for experienced Java developers who are new to Spring, who wish to understand how and when to use Spring in Java and JEE applications.

## Prerequisites

This introduction to Spring development course requires that incoming students possess intermediate-level Java programming skills and practical hands-on Java experience. This class is geared for experienced Java developers who are new to Spring, who wish to understand how and when to use Spring in Java and JEE applications.

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