

Spring Boot Developer

DELIVERY METHODS

- Public (classroom-based and virtual)
- Private, onsite

COURSE DURATION

Two days of instructor-led training

TARGET AUDIENCE

Application developers who want to increase their understanding of Spring Boot and a focus on fundamentals.

PREREQUISITES

- Basic understanding of Spring and/or completion of the Core Spring course
- Experience using Java
- Git
- Experience using Maven and/or Gradle

PRICING

Please visit our website at pivotal.io/training

MORE INFORMATION

On-site training is also available for customers who prefer to bring a Pivotal Certified Instructor to their own facilities. For more information about on-site classes, contact us at pivotal.io/training/contact.

COURSE OVERVIEW

Building on the benefits of the Spring framework, Spring Boot represents the next chapter in Java development. Spring Boot's opinionated approach removes much of the boilerplate and configuration that characterizes Spring, making development faster and deployment easier.

This course offers experience with Spring Boot and its major features, including auto-configuration, data access, Actuator, and more. On completion, participants will have a foundation for creating enterprise-ready applications.

COURSE OBJECTIVES

Upon completion of this course, participants will understand how Spring Boot enhances the following:

- Spring configuration
- Web development
- REST services
- Data Access
- Security
- Messaging
- Health and Monitoring
- Microservices

COURSE OUTLINE

1. SPRING FRAMEWORK

- Spring Framework Overview by creating a Web and Data application.

2. INTRODUCTION TO SPRING BOOT

- A quick introduction to Spring Boot by creating a REST Web App.

3. SPRING BOOT INTERNALS

- Configuration, Auto-Configuration

4. SPRING BOOT FEATURES

- Packaging, SpringApplication class, External Configuration, Profiles and Logging

5. SPRING BOOT WEB DEVELOPMENT AND REST SERVICES

- Spring Web MVC an Overview
- Web Development with Spring Boot

6. DATA ACCESS WITH SPRING BOOT

- JDBC
- JPA
- JPA Rest
- NoSQL - MongoDB
- Additional Features

7. TESTING

8. SECURITY

- Auto-configuration/simple security
- Security with JDBC
- OAuth2

9. MESSAGING WITH RABBITMQ

10. ACTUATOR/METRICS/HEALTH INDICATORS

11. MICROSERVICES CAPSTONE

- Overview of Microservices
- Creating Services to communicate
- Running in the cloud