SP-CORE: Spring: Core Training

Price: 3700

Duration: 4 days

Delivery Methods: Virtual

Overview

This course prepares students for the Spring Professional certification exam. The Spring framework is an open-source framework for building enterprise Java applications. Spring makes programming Java quicker, easier, and safer for everybody. Spring's focus on speed, simplicity, and productivity has made it the world's most popular Java framework. Spring tackles common application problems to make the process of building applications easier. Spring provides patterns and structure for your Java application and handles most of the things that developers need to do when they build a Java application. The Spring framework comes with various different data access APIs and mechanisms for connectivity, querying, and transaction management for working with databases in Java. It allows you to continue to work with JDBC but makes that difficult experience much easier.

Spring's flexible and comprehensive set of extensions and third-party libraries let developers build almost any application imaginable. At its core, Spring framework's Inversion of Control (IoC) and Dependency Injection (DI) features provide the foundation for a wide-ranging set of features and functionality. Whether you're building secure, reactive, cloud-based microservices for the web or complex streaming data flows for the enterprise, Spring has the tools to help.

Spring Boot transforms how you approach Java programming tasks by streamlining your experience. Spring Boot combines necessities such as an application context and an auto-configured, embedded web server to simplify microservice development.

This 4-day course offers hands-on experience with the major features of Spring and Spring Boot, which includes configuration, data access, REST, AOP, auto-configuration, actuator, security, and Spring testing framework to build enterprise and microservices applications. On completion, participants will have a foundation for creating enterprise and cloud-ready applications.

This course prepares students for the Spring Professional certification exam.

Audience Profile

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

At Course Completion

By the end of the course, you should be able to meet the following objectives:

- Spring configuration using Java Configuration and Annotations
- Aspect oriented programming with Spring
- Testing Spring applications using JUnit 5

Outline

Introduction to Spring

Spring JAVA Configuration: A Deeper Look

Annotation-based Dependency Injection

Factory Pattern in Spring

Advanced Spring: How Does Spring Work Internally?

Aspect-oriented programming

Testing a Spring-based Application

Data Access and JDBC with Spring

Database Transactions with Spring

Spring Boot Introduction

Spring Boot Dependencies, Auto-configuration, and Runtime

JPA with Spring and Spring Data

Spring MVC Architecture and Overview

Rest with Spring MVC

Spring Security

Actuators, Metrics and Health Indicators

Spring Boot Testing Enhancements

Spring Security Oauth (Optional Topic)

Reactive Applications with Spring (Optional Topic)

Prerequisites

Some developer experience using Java, an IDE (Eclipse, STS or IntelliJ) and build tools such as Maven or Gradle.

Course Schedule

Date	Time	Price	Options

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FAQ

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What is your late policy?

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What happens when I finish my class?

You will receive a 'Certificate of Completion' once you complete the class. If you purchased an exam voucher for the class, a team member from TOPTALENT LEARNING will reach out to discuss your readiness for the voucher and make arrangements to send it.