
Core Spring

Duración: 5 Días **Código del Curso: SPRINGC**

Temario:

Core Spring Course Overview

English - Please note this course is only available in English.

Español - Por favor, tenga en cuenta que esta formación solo está disponible en inglés.

Spring is the leading Java framework for building enterprise software. This course comprises sessions dealing with Inversion of Control (IoC), Depe

Dirigido a:

Who will the Course Benefit?

The Core Spring course will benefit Java developers who are new to Spring and want to develop/contribute large and complex enterprise-level applications.

Objetivos:

- Course Objectives
 - This course aims to provide the delegate with the knowledge to be able to develop (or contribute to the development of) secure Spring web applications/REST APIs that read from and write to persistent storage.
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Prerequisites:

- Delegates attending this course should be competent Java developers who have a good understanding of OO principles and are able to build simple applications that exploit APIs including Collections, IO, and JDBC. Delegates would also benefit from having some previous experience with Servlet programming. This knowledge can be obtained by attendance on the pre-requisite Java Programming 1 / Java Developer course.
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Siguientes cursos recomendados:

Further Learning

- Developing Applications with Java EE
 - Java Programming 2 / Java Advanced Developer
 - Unit Testing with JUnit
 - JPA and Hibernate
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Contenido:

Core Spring Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: INTRODUCTION TO SPRING ; IOC

- About Spring
- Inversion of Control
- The Spring IoC Container
- Spring Beans
- Configuring the container
- Instantiating the container and obtaining beans

Session 2: ANNOTATION-BASED CONTAINER CONFIG. ; DI

- Classpath scanning and managed components
- Stereotype annotations
- Dependency Injection
- Autowiring
- Handling multiple candidate dependencies
- Java configuration vs. annotations, and mixing

Session 3: MORE CONTAINER CONFIG.

- Bean lifecycle and post processors
- Acting on a bean's lifecycle events
- Specifying the scope of a bean
- Composing configurations
- Grouping beans into profiles
- Externalising properties
- Environment abstraction
- Spring Expression Language Core Spring Training Course Course Contents - DAY 2

Session 4: AOP

- About AOP and proxying
- Constructing pointcut expressions
- Advising the target object

Session 5: TESTING

- Spring integration testing with JUnit
- Loading and configuring the container
- Setting the active profile(s) and property source(s)

Session 6: TRANSACTION MANAGEMENT

- Spring's transaction abstraction
- Configuring the data source and transaction manager
- Transaction configuration, e.g. propagation and rollback rules
- Declarative transaction management
- Programmatic transaction management
- Choosing between the approaches Core Spring Training Course Course Contents - DAY 3

Session 7: ACCESSING DATA ; JDBC

- Exception translation
- Implementing a DAO using JdbcTemplate
- Using callbacks to handle results
- Managing data access exceptions

Session 8: MINIMISING CONFIG. WITH SPRING BOOT

- Spring Boot: what and why
- Starter dependencies
- Auto-configuration
- Spring Boot annotations
- Creating a simple Spring Boot application
- Configuration properties
- Executing code on startup using CommandLineRunner
- Testing in Spring Boot

Session 9: DATA PERSISTENCE WITH SPRING DATA JPA

- Creating a Spring JPA app with Spring Boot
- ORM, JPA, and Hibernate
- Entity mapping
- Spring Data repositories
- Persisting entities
- Writing query methods
- Transactionality
- Testing a Spring JPA app including @DataJpaTest Core Spring Training Course Course Contents - DAY 4

Session 10: WEB APPS WITH SPRING WEB MVC

- Creating a Spring MVC app with Spring Boot
- The request processing lifecycle
- Building a controller
- Handler method parameters
- View templates
- Testing a Spring MVC app including @WebMvcTest
- Configuring a Spring MVC app for deployment

Session 11: REST APIS WITH SPRING WEB MVC

- About REST APIs
- @ResponseBody, message conversion, and @RestController
- @RequestBody and validation
- @ResponseStatus and exception handling
- Testing a REST API including @WebMvcTest
- Using RestTemplate to invoke REST services Core Spring Training Course Course Contents - DAY 5

Session 12: SECURING AN APP WITH SPRING SECURITY

- The big picture
- Architecture components
- Configuring custom authentication
- Configuring authorisation for access to endpoints
- Configuring authorisation at the method level
- Configuring Spring Security

Session 13: SPRING BOOT ACTUATOR

- About the Actuator
- Exposing endpoints
- Writing custom endpoints
- Dealing with metrics
- Health indicators
- Writing custom health indicators

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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