

Core Spring

Overview

Core Spring is our 4-day flagship Spring Framework training. In this training, students build a Spring-powered JEE application that demonstrates the Spring Framework and other Spring technologies like Spring AOP, Spring Security, Spring IOC and more in an intensely productive, hands-on setting.

Completion of this training entitles each student to receive a free voucher to schedule an exam at a Pearson Vue Centre to become Spring Certified. The Core Spring training is also the ideal preparation for the certification exam.

Training Objectives

At the end of the training, you should gain an understanding of Spring and associated technologies and be able to:

- Develop Java applications using the Spring Framework
- Use Dependency Injection to set up and configure applications
- Test Spring Applications
- Use Hibernate and JDBC with Spring to access relational databases
- Make use of Spring's support for transactions
- Utilize AOP to add behavior to objects
- Develop web applications – traditional and RESTful
- Secure application with Spring Security
- Use technologies such as RMI, HttpInvoker, Hessian, Burlap and JMS for remote communication
- Add management with the JMX API

Target Audience

This training is designed for developers interested in developing applications with Spring

Prerequisites

- Experience with developing applications using Java

Pricing and Scope

- Four (4) days of instructor-led, classroom training
- 50% lecture and 50% hands-on lab
- Individual enrollment available at convenient locations worldwide:
<http://www.springsource.com/training/curriculum>
- Contact your VMware representative for pricing information
- Onsite training available for companies that want the benefits of instructor-led classes without travel
- Contact VMware Education to discuss facility requirements for onsite training at education@vmware.com

Training Outline

Day 1: Spring Framework Fundamentals

- Introduction to Spring
- Using Spring to configure an application
- Understanding the bean life-cycle
- Simplifying application configuration
- Annotation-based dependency injection
- Testing a Spring-based application

Day 2: Effective Middle-Tier Architecture

- Adding behavior to an application using aspects
- Introducing data access with Spring
- Simplifying JDBC-based data access
- Driving database transactions in a Spring environment

Day 3: Implementing Enterprise Information Connectivity

- Introducing object-to-relational mapping (ORM)
- Getting started with Hibernate in a Spring environment
- Effective web application architecture
- Getting started with Spring MVC
- RESTful web services with Spring MVC

Day 4: Integration with Enterprise Services

- Securing web applications with Spring Security
- Understanding Spring's remoting framework
- Simplifying message applications with Spring JMS
- Adding manageability to an application with Spring JMX

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SpringSource, a division of VMware. 3401 Hillview Avenue Palo Alto CA 94304 USA Tel 877-486-9273 Fax 650-427-5001 <http://www.springsource.com> <http://www.vmware.com>
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