

Core Spring

Overview

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

Completion of this training entitles each student to waive the registration fee for the SpringSource Certified Professional Examination and it is also the ideal preparation for the exam.

Students who have completed this training should enroll next in “Rich Web Applications with Spring” or “Enterprise Integration with Spring” depending on their focus.

Course Objectives

At the end of the course, 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 relation 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

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

Course Outline

Day 1

- 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

- 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

- 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

- 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

About VMware Professional Services

VMware Professional Services helps IT departments in companies of all sizes accelerate time to market, reduce deployment risk and maximize ROI as they adopt virtualization. VMware Professional Services and its extensive partner ecosystem comprises experienced IT professionals who provide consulting, technical account management, integration and deployment services, and education services for VMware products and solutions. As the largest services organization focused solely on virtualization, our consultants have in-depth expertise and use proven, repeatable delivery methodologies that have helped thousands of customers energize IT while saving energy—financial, human and the earth's—through virtualization.

For More Information

More information about VMware software and services is available from <http://www.vmware.com> and from your local VMware representative.

Terms and Conditions

This datasheet is for informational purposes only. VMWARE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, IN THIS DATASHEET. All VMware service engagements are governed by the [VMware Professional Services General Terms and Conditions](#)

(see <http://www.vmware.com/files/pdf/services/tc.pdf>).



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>
© 2009 VMware, Inc. All rights reserved. This product is protected by U.S. and international copyright and intellectual property laws. This product is covered by one or more patents listed at <http://www.vmware.com/download/patents.html>.
VMware is a registered trademark or trademark of VMware, Inc. in the United States and/or other jurisdictions. All other marks and names mentioned herein may be trademarks of their respective companies.

If you are located in the United States, the VMware contracting entity for the service will be VMware, Inc., and if outside of the United States, the VMware contracting entity will be VMware International Limited. VMware