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## Hibernate with Spring

**Create effective data-driven Spring applications with Hibernate.**

**This course is not currently offered by Global Knowledge. Information here is provided for reference only.**

In this three-day course, you will learn how to create effective data-driven Spring applications with Hibernate. You will see examples of using XML and annotation-based configuration of both Spring and Hibernate.

Benefiting from the experience and architectural expertise of our instructors in a highly interactive, intensely hands-on setting, you will begin by learning features of using Hibernate with Spring, and then you'll move on to fundamental architectural issues. You will discover that while it's important to know how to use certain parts of a framework, it's even more important to be able to decide when to use them.

### What You'll Learn

- Configure Hibernate in the context of a Spring application
- Create efficient object/relational mappings with Hibernate
- Use the Spring Framework to facilitate Hibernate session, transaction, and exception manager
- Use Hibernate with Spring to understand the fundamental architectural issues

### Who Needs to Attend

Developers interested in using Hibernate with Spring

### Prerequisites

- Ability to create basic Java web applications
- Basic understanding of JDBC and relational database concepts

### Follow-On Courses

There are no follow-ons for this course.

### Course Outline

#### Day 1: Spring Framework Foundations

- Introduction to Spring
- Using Spring to configure an application
- Simplifying application configuration
- Annotation-based dependency injection
- Simplifying JDBC-based data access with Spring
- Driving database transactions in a Spring environment

#### Day 2: Using the Hibernate ORM

- Introducing object-to-relational mapping (ORM)
- Getting started with Hibernate in a Spring environment
- Using JPA annotations and Hibernate XML
- Inheritance: Considerations and trade-offs
- Defining custom user-types for Value Objects
- Using queries: HQL, criteria API, native (SQL)
- Hibernate in web applications: Open session in view
- Using the different Java collection mappings
- Using joins and components to go beyond naïve class to table mappings

#### Day 3: Hibernate Internals and Configuration

- Working with Hibernate objects

- Lazy loading and detached objects
- Optimistic and pessimistic locking
- Mixing Hibernate and JDBC
- Performance tuning
- Advanced features: interceptors, schema generation, caching, batching

### **Labs**

Hands-on labs are interspersed throughout this class.

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## **Private Group Training**

**Course Code: 3224**

**Contact us for pricing**

3 Day Course

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