

# Developing J2EE Applications using Hibernate

WT1442

This training course provides students with the knowledge needed to use the Hibernate Object/Relational Mapping (ORM) framework to implement the persistence layer of J2EE applications.

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## Audience

- Software designers, developers and programmers

## Prerequisites

- Understand how to program in Java

## Course Length

- Three Days

## Learning Objectives

- Understand the concepts of object/relational mappings
- Understand the architecture of Hibernate
- Integrate and configure Hibernate in J2EE applications
- Create Hibernate mappings
- Retrieve and update persistent objects using Hibernate
- Use HQL (Hibernate Query Language) and criteria queries
- Know when to use database and application transactions
- Understand the Hibernate caching architecture
- Tune performance of Hibernate operations
- Use various Hibernate tools

## Teaching Methods

- Lectures
- Hands-on workshops

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## Course Outline

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- **Object/Relational Mapping Concepts**
- **Hibernate Architecture and Configuration**
- **Basic Hibernate Mappings**
- **Manipulating Persistent Objects**
- **Advanced Hibernate Mappings**
- **Transactions and Concurrency**
- **Performance**
- **Hibernate Tools**
- **Design Techniques**