

4 Days

## Red Hat JBoss Development - Persistence with Hibernate

By the end of the course, applicants will have learned the best practices to leverage Hibernate to produce and maintain well-designed, robust business applications while optimizing performance and reducing software maintenance costs

### Course Details

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#### Course Outline

Understanding Java Persistence Objective: Learn how JBoss® Hibernate® effectively answers the question of how to represent relational data in an object-oriented environment. Getting Started with Hibernate Objective: Deploy a simple application leveraging core Hibernate mappings and persistence features. Hibernate Projects and Tools Objective: Use available JBoss Developer Studio Hibernate tooling to analyze a project's domain objects. Advanced Hibernate Mapping Objective: Extend Hibernate Entities with built-in and user-defined types and develop robust identifiers. Entity Relations and Inheritance Objective: Use advanced relational mappings to manage uni- and bi-directional associations, and map Java™ inheritance to database tables. Persistent State and Transactions in Hibernate Objective: Examine how Hibernate manages the relationship between the data in a table and the values in an Entity, and associate these state changes with a unit of work. Querying Data Efficiently Objective: Learn how to leverage Hibernate-fetching strategies, query options, and filters to produce efficient queries. Design and Best Practices Review Objective: Learn the basics of Hibernate design patterns and best practices and how to apply them to build efficient Hibernate systems. Hibernate Configuration and Deployment Objective: Use Hibernate's highly adaptable framework in a variety of application types, from simple Java standalone applications to full-fledged Java enterprise-class deployments. Hibernate Advanced Frameworks Objective: Hibernate supplies advanced tooling to assist developers in the areas of testing, validation, search, and spanning database instances.

#### Who Should Attend

Enterprise systems architects Experienced Java developers who work with SQL-based database systems Business component and database developers Database administrators who need to understand how ORM may affect performance and how to tune the performance of the SQL database management system and persistence layer

#### Pre Requisite

Experience with Java Platform, Enterprise Edition (Java EE) or Java 2 Platform, Enterprise Edition (J2EE™) A high-level understanding of enterprise software systems development An understanding of legacy systems integration

#### Exams

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464, Udyog Vihar Phase  
V, Gurgaon (Delhi  
NCR)-122016, India

+91 8882 233 777

training@mercury.co.in

www.mercurysolutions.co

