



## Introduction to Hibernate Course Syllabus

### Course Description:

Hibernate course develops skills in using the most popular object relational mapping framework for java environments.

### Prerequisite Course(s):

- Java Programming
- Advanced Java Programming
- XML & Java API for XML Processing

### Learning Objectives:

- To explain how the issues associated with object persistence in a relational model are addressed by Hibernate.
- To describe the relationships between SQL, Java and Hibernate.
- To write applications those take advantage of the Hibernate Persistence Manager.
- To map Java classes to relational tables.
- To create and use mappings between Java classes and relational databases.
- To explain how identity and keys are handled in Hibernate.
- To build java applications that use Hibernate to create, retrieve, update and delete.
- To work with Hibernate Query Language (HQL) to generate object-based SQL.
- To use Hibernate Criteria Query API to do searches and Query By Example.

### Course Outline:

- Introduction to ORM.
- Introduction to hibernate.
- Hibernate configuration file & mapping files.
- Session operations.
- Hibernate strategies.
- Mapping of relations.
- Lazy loading.
- Fetching strategies.
- Querying using HQL, Criteria and QBE.
- Hibernate Caching.