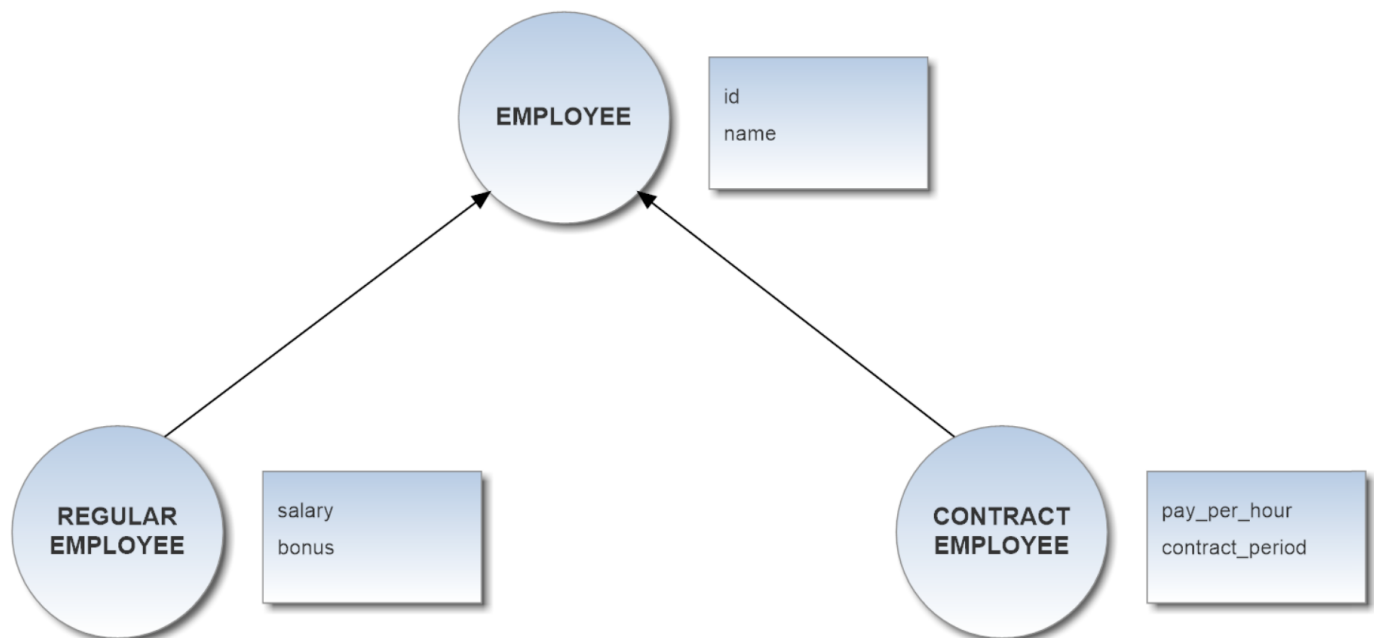




# Complete Guide: Inheritance strategies with JPA and Hibernate

[www.eMexotechnologies.com](http://www.eMexotechnologies.com)



## Overview

Let eMexo Technologies **Best Hibernate training in Electronic City Bangalore** take you from the fundamentals of Hibernate and make you an expert in developing real-time Hibernate applications. Here are the major topics we cover under this Hibernate course Syllabus **Introduction to Hibernate, Getting started with Hibernate quickly, Querying, ORM, The Persistence Lifecycle, Session factory, Optimistic Locking / Versioning, Relationships, Inheritance Mapping, Additional Querying Capabilities, The Criteria API, Transactions, Filters, Performances, Search and validation framework, OGM, NoSQL, Spring, Native SQL, Hibernate, Hibernate Spring Integration, Java Persistence API, and Advanced Topics**. Every topic will be covered in the most practical way with examples for our Hibernate Course in Electronic City Bangalore.

All the topics will be covered with Practical and hands-on training. Our trainers have industry experience with live project experience in cutting-edge technologies which they teach. We hire only the Best Hibernate industry specialists as trainers for our **Hibernate Certification Training in Electronic City Bangalore**.

If you are looking for a Hibernate Certification Course in Electronic City Bangalore, **eMexo Technologies** is the **Best Hibernate Training Institute in Electronic City Bangalore**. Come over to our training institute for a free demo class. Let our trainer give you a demo on Hibernate and only then you take the decision to enroll in the training program.

## Training Features

### Real-life Case Studies

Do a real-life case study to understand the usage in real-world scenarios.

### Assignments

Each class will be followed by a practical assignment which can be completed before the next class.

### Preparation for interview

Our trainers are professionals working in multinational corporations. They are experts in their field and know exactly what the interviewer will look for in the candidate. Experienced trainers not only share interview questions but also conduct mock interviews to help prepare for the actual interview.

### Key Features

eMexo Technologies offers the **Best Hibernate Training Course in Electronic City Bangalore** with the TOP industry expert trainers.

Here are the key features.

- ★ Free Demo Class Available
- ★ Practical Approach
- ★ Expert & Certified Trainers
- ★ 100% Job Oriented Training
- ★ Real World use cases and Scenarios
- ★ Completed 500+ Batches
- ★ Certification Guidance

## **Unit 1: Introduction to ORM and Hibernate**

- Introduction to Java Persistence
- SQL in Persistence
- About Object Relational Mapping
- Purpose of ORM
- Entity Beans
- About Hibernate
- ORM with Hibernate
- Hands-On

## **Unit 2: Hibernate Concepts**

- Id and Primary Key
- Id Generation Methods
- Transaction
- POJOs (Plain Old Java Objects) and the Data Layer

- Hibernate Over Entity Beans
- Understanding Hibernate Architecture
- Configuration
- SessionFactory
- Session
- Query
- Criteria
- Hibernate Configuration
- Hibernate Mappings
- Persistent Classes
- Working with Hibernate to perform
- CRUD Operations
- Configuring Mappings Using Annotations
- Hands-On

### **Unit 3: Persistence and Session Factory**

- Hibernate Tools
- Hibernate Environment
- Persistence Lifecycle
- Required JAR Files
- Hibernate Configurations

- JPA
- Annotations and XML Configurations
- Creating and Configuring Hibernate Session Factory
- SQL Dialects
- Advance Configurations
- Hands-On

#### **Unit 4: Association, Mapping, & Inheritance**

- Associations
- Unidirectional Associations
- Bidirectional Associations
- Inheritance Strategies
- Polymorphism
- Entities and Types
- Basic Types
- Custom Types
- Hands-On

#### **Unit 5: Criteria and Query Language**

- Hibernate Query Language – HQL
- Polymorphic and Sub-queries
- HQL functions, and Aggregations

- Criteria with Hibernate
- Fetching Strategies of Criteria
- Detached Criteria
- Executing Native SQL
- SQL Named Queries
- Hands-On

## **Unit 6: Transactions, Filter, and Performance**

- Session Scopes
- Transaction Scopes
- JTA
- Locking
- Filtering with Hibernate
- Filter Annotations
- Fetching Strategies
- Cache
- Hands-On

## **Unit 7: Search & Validation Framework**

- Hibernate Search
- Lucence
- Indexing fields
- Search and Lucence API

- Validation of Beans
- Configuration, Metadata API
- Validating Constraints and Groups
- Hands-On

## **Unit 8: OGM, NoSQL, and Spring**

- Understanding NoSQL
- Hibernate OGM
- NoSQL Data Persistence
- Spring with Hibernate
- Hibernate Template
- Transaction Management with Spring
- Transaction Advice
- Exception Handling
- Hands-On

## **Unit 9: Native SQL**

- Using SQL Query
- Named SQL Query
- Using a Stored Procedure for Querying
- Creating Custom SQL for CRUD
- Hands-On

## **Unit 10: Hibernate Query Languages And Transactions And Caching**

- Using HQL, criteria API, native SQL
- Hibernate Transaction
- Hibernate and JDBC
- Hibernate second-level caching
- Hands-On

## **Unit 11: Spring Hibernate Integrations**

- Spring Hibernate Integration
- Data source creation
- Hibernate DAO implementation using
- Hands-On

## **Unit 12: JPA (Java Persistence API)**

- JPA Introduction
- JPA Installation
- JPA ORM
- JPA Entity
- JPA Entity Manager
- JPA Collection Mapping
- JPA Type of Mapping
- JPA Cascading
- JPA JPQL



- JPA Criteria API
- JPA Inheritance
- Hands-On

## Unit 13: Project

- Problem statement
- Build JPA entities
- Define DAO layers
- Interaction with Web Layer
- Executing CRUD in application
- Hands-On

## FAQs

### **1. How is the training organized? How much percentage is theoretical and how much is practical hands-on?**

We at eMexo believe nothing beats hands-on practice when it comes to learning a concept. Our teaching methodology is 100% practical and hands-on-oriented. You learn a concept, you practice it then and there with the trainer. We also give you assignments for each topic which you can practice at home and any doubts regarding the topic can be cleared with the trainer the next day.

### **2. What is the course duration? How and when do you plan to complete the course?**

We generally cover our courses in 30 hours, however, we are aware that we can't put a hard stop to learning with a number. Our trainer will make sure that you have learned everything that is part of the curriculum. This could mean 28 hours or 35 hours, doesn't matter.

### **3. What is the material provided in the training?**

We have industry standard course material which is used by our trainers to train you. At the end of the training apart from the notes which you have taken during the course, we will also provide you with the training material which was used. This training material includes the training content, interview questions, etc.

### **4. Do you help in preparing for the interview?**

Our trainers are working professionals who work in MNCs. They are the expert in their domain and they know exactly what an interviewer looks into a candidate. Our expert trainers apart from sharing the interview questions will also conduct mock interviews to help you prepare for the real interview.

### **5. Who are your trainers?**

Our trainers are industry experts who work in their respective technologies day in and day out. They work in MNCs and are technology experts within their organizations.

### **6. What is the total batch size per course?**

We maintain a strict batch size of a maximum of 5 students. We also provide exclusive one-to-one training as well. Talk to our training partner to get more details.

### **7. Do you provide certification for the course?**

Yes, at the end of training we provide a certification of completion.

### **8. Will I be joining a new batch or be merged with another batch?**

You will be added to a new batch.

### **9. Is fast track training available?**

Yes, we provide fast-track training as well for those who want to complete the course faster. The curriculum and the total hours required to complete the course will remain the same. However, the trainer will be spending more hours with you to complete the course.

### **10. Do you assist in job placement?**

Our trainers are expert professionals in their organizations and they often act as the interviewer to hire new candidates. Our trainers will help you prepare your resume with industry standards. After all, they know exactly what to look for in a resume.

### **11. Timings for training - Regular training/weekend training**

We provide both regular and weekend training. Talk to our training partner to learn more about the timings.

**12. Will you be working on a live project during training?**

Yes, apart from doing the hands-on practice our trainer will also be taking a real-world project and working with you for the implementation.

**13. What happens if I miss a class?**

If you miss a class the content of that class will be taught to you again. With us, you might miss a class but not the content.

**14. Can I attend a demo before the actual class?**

Yes, absolutely! Talk to our training counselor on phone at 9513216462 or email us at [info@emexotechnologies.com](mailto:info@emexotechnologies.com) to arrange a free demo. You can also fill in the contact us form below and we will call you to discuss your training requirements.