



HIBERNATE TRAINING COURSE SYLLABUS



WWW.SLAINSTITUTE.COM | +91 88707 67784

Hibernate Training Course Syllabus

SLA is one of its kind Institute which not only equips you in technology skills but will train you for free in Aptitude skills, Soft Skills, Mock Interviews, Interview Skills, Work ethics and Corporate Values that you need to know to get into IT Industry. Our training is given by expert real time development experienced trainers and we enable each and every student of ours to do their own real time projects by the end of the program.

We do not buy you a job by bribing companies to secure a place in IT, instead we equip you with the skills needed to get employed in IT and will support you with unlimited number of relevant interview opportunities so that your career in IT becomes assured. Our support will be there until you get placed in an IT Company as that's our mission too.

If you want to just have an IT certification, you can do your course anywhere. If you aspire to get into an IT Job, then you should choose SLA. With SLA, your IT dream will definitely come into reality.

Please go through the long list of our student reviews / offer letters @ www.joinsla.com to get to know more about us.

Introduction to Hibernate

- ❖ Issues with Persistence layers and Object-Relational Mapping (ORM)
- ❖ Hibernate Overview and Benefits
- ❖ Hibernate architecture overview
- ❖ POJO (Plain Old Java Object) Based Mapping

Getting started with Hibernate quickly

- ❖ Overview of the Hibernate distribution
- ❖ Configuring Hibernate
- ❖ hibernate.cfg.xml file
- ❖ SessionFactory configuration
- ❖ Connection properties, Database dialect
- ❖ Configuration class, Session Interface
- ❖ "Hello World" Program for Hibernate
- ❖ Mapping a Class
- ❖ Persistent Entity Class, Hibernate Mapping
- ❖ File, Mapping the Entity Class
- ❖ Primary keys: Id property, Generated Id
- ❖ Hibernate Type System Working with sessions and Persistent Objects

Overview and configuration for Hibernate

- ❖ Querying
- ❖ Inserting and Updating Entities
- ❖ HQL - Hibernate Query Language Overview
- ❖ The Query Interface
- ❖ Creating and working with queries
- ❖ Named Queries, Projection Queries, Aggregate Queries

The Persistence Lifecycle

- ❖ Transaction Overview and Transactions in Hibernate
- ❖ Hibernate Transaction API (in Managed and Non-managed Environments)
- ❖ The lifecycle of managed objects
- ❖ Persistent, transient, and detached objects
- ❖ The Persistence (Session) Context (Lifespan, Relation to Managed Objects, Propagation)
- ❖ Contextual Sessions
- ❖ Synchronization to the Database

Optimistic Locking / Versioning

- ❖ Detached Objects and Optimistic Locking
- ❖ Versioning overview and Using Versioning
- ❖ Locking Objects
- ❖ Object Relationship Overview
- ❖ Mapping Collections of Value Objects
- ❖ Entity Relationships: 1-N, N-1, N-N, 1-1
- ❖ Mapping Entity Relationships
- ❖ Uni and Bi-directional Relationships
- ❖ The Relationship "inverse"
- ❖ Cascading Over Relationships
- ❖ Queries Across Relationships (Lazy and Eager)

Inheritance Mapping

- ❖ Entity Inheritance with Hibernate
- ❖ Table-per-class mapping
- ❖ Table per Subclass mapping
- ❖ Table per Concrete Class mapping

Additional Querying Capabilities

- ❖ Projection Queries, Aggregate queries
- ❖ Bulk updates and deletes
- ❖ Native SQL Queries
- ❖ Query Filters

The Criteria API

- ❖ Overview of the Criteria API
- ❖ Working Querying with the Criteria API
- ❖ Query by Example

Hibernate and Java Persistence / EJB 3

- ❖ Overview of Java Persistence
- ❖ EJB 3
- ❖ Relationship between Java Persistence and Hibernate
- ❖ Overview of Annotations
- ❖ Mapping Entities with Hibernate Annotations
- ❖ The EntityManager, Persistence Context and Persistence Unit
- ❖ Working with Transactions - EntityTransaction, Managed, and Unmanaged
- ❖ Environments
- ❖ Inserts and Updates
- ❖ JPQL - Java Persistence Query Language
- ❖ Versioning

Are you happy with our course curriculum? Then why you delay? Take your mobile phone and ring us quickly on +91 88707 67784.