



**LEARN WELL
TECHNOCRAFT**

JAVA FRAMEWORKS SYLLABUS

Hibernate, Spring, JSP, Servlets

8TH YEAR OF ACCOMPLISHMENTS

Authorized Global Certification Center for Microsoft, Oracle, IBM, AWS and many more.

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ACHIEVEMENTS FROM TRAINING

- CANDIDATE WILL BE ABLE TO SHOW 2-3 YEARS EXPERIENCE AFTER TRAINING.
- REAL TIME SCENARIOS, CASE STUDIES, PROJECTS INCLUDED.
- REAL TIME DATA PROVIDED FOR PRACTICE.
- SOFTWARE WILL BE INSTALLED ON CANDIDATES MACHINE.
- INDIVIDUAL 1 ON 1 DISCUSSIONS FOR RESUME MODIFICATIONS.
- LEARN FROM INDUSTRY EXPERTS.
- GLOBAL CERTIFICATION PREPARATION.
- APPEAR FOR GLOBAL CERTIFICATION AT LEARN WELL TECHNOCRAFT ITSELF.
- GET DISCOUNTED CERTIFICATION VOUCHERS.
- AUTHORIZED GLOBAL CERTIFICATION CENTER FOR PEARSON, PSI, KRYTERION.

Hibernate Syllabus

Hibernate Introduction

- Why Object Relational Mapping (ORM)?
- What is ORM?
- Hibernate Advantages
- Supported Databases

Hibernate Architecture

- Configuration Object
- Session Factory Object
- Session Object
- Transaction Object
- Query Object
- Criteria Object

Hibernate Annotations

- Entity Annotation
- Table Annotation
- Id & Generated value Annotation
- Column Annotation

Hibernate Configuration File

Generator Classes

Dialects

Collection Mapping

One – to – many by List

- Define POJO Classes
- Hibernate Mapping File
- Application Class
- Compilation & Execution

One – to – many by Set

- Define POJO Classes
- Hibernate Mapping File
- Application Class
- Compilation & Execution

One – to – many by Map

- Define POJO Classes
- Hibernate Mapping File
- Application Class
- Compilation & Execution

Lazy Collection

Component Mapping

Association Mapping

Many – to – One

- Define POJO Classes
- Hibernate Mapping File
- Application Class
- Compilation & Execution

One – to – One

- Define POJO Classes
- Hibernate Mapping File
- Application Class
- Compilation & Execution

One – to – Many

- Define POJO Classes
- Hibernate Mapping File
- Application Class
- Compilation & Execution

Many – to – Many

- Define POJO Classes
- Hibernate Mapping File
- Application Class
- Compilation & Execution

Transaction

Management HQL

Hibernate Cache

- First – level cache
- Second – level cache
- Query – level cache

Spring Syllabus

Introduction

- Benefits of using Spring Framework
- What is Aspect Oriented Programming?

Architecture

- Core Container
- Data Access/Integration
- Web
- Miscellaneous

Dependency Injection

- IOC Container
- Constructor Injection
- Setter Injection
- Autowiring

Spring ORM

- Spring with ORM
- Spring with JPA

Spring Transaction Management

- Local vs. Global Transactions
- Programmatic Transactions management
- Declarative Transactions management
- Programmatic Vs. Declarative transactions

AOP with Spring Framework

Spring MVC

- Dispatcher Servlet
- Configuration
- Defining a controller
- JSP views
- Hello World Example

JSP Syllabus

- Day 1 : Basics of JSP
- Day 2 : JSP Scripting Element
- Day 3 : JSP Implicit Object
- Day 4: JSP Directive Element
- Day 5: Exception Handling
- Day 6 : JSP Standard Tag
- Day 7 : Expression Language
- Day 8 : JSTL and Custom Tag

Servlet Syllabus

- Day 1 : Basics of Servlet
- Day 2 : Servlet Request and Response
- Day 3 : Session Management
- Day 4: Events and Listeners
- Day 5: Filters
- Day 6 : Important Examples
- Day 7 : Important Examples

Note: Each topic will have the practical sessions covered in the classes.

