

CORPORATE JAVA CONTENT

Duration: 120 Hours

0731-4069788

**JAVA
INDUSTRIAL
TRAINING**
CORE JAVA

- ❖ Explain JAVA Technology, Java Short History, Comparison of JAVA from C/C++
- ❖ Type of Application of JAVA, Edition of Java
- ❖ JVM architecture in details
- ❖ Latest features of Java 15
- ❖ Data type, Primitive type and Wrapper classes
- ❖ Operator and Conditional Statements (if, if—else, nested, else if, multiple if)
- ❖ How to take input in Java?
- ❖ Command line input operation in Java
- ❖ Conditional Statement Simple If, If-else, Nested If—else, Ladder If-else, Multiple IF
- ❖ Switch Statement, Nested Switch Statement
- ❖ Loop Statement , Do-While, While, For, Nested For
- ❖ Array (One dimension, Multidimensional, Jagged, Object)
- ❖ String class, String Buffer Class, String Builder Class
- ❖ Memory Management & Garbage Collector
- ❖ OOP's Introduction, Class and Object ,Type of Class, Inner class, Anonymous object, Generic Class,
- ❖ Data abstraction, Encapsulation, Polymorphism, Constructor,
- ❖ Garbage collector, Inheritance, Abstract class, Interface, Super Keyword, this Keyword
- ❖ Exception Handling (Checked , Unchecked)
- ❖ Explain throw, throwable
- ❖ File Handling (File, File Reader, File Writer, Buffered Reader, Buffered Writer, FileInputStream, FileOutputStream)
- ❖ Serialization and Deserialization
- ❖ Multithreading, explain Thread, Runnable, Sleep, Wait, notify, and notify all,
- ❖ Collection Framework, Wrapper Class, Java 15 Features

Advance Java or J2EE

- ❖ **Servlet Introduction, Custom Servlet, Service method on Servlet**
- ❖ **Create HTML view under servlet**
- ❖ **Create five web page application using servlet**
- ❖ **Servlet navigation using redirect() and RequestDispatcher**
- ❖ **Filter in Servlet**
- ❖ **How to create API using Servlet**
- ❖ **What is JSP? Difference between JSP and Servlet**
- ❖ **How to write Java code on JSP**
- ❖ **How to create five web page application using JSP**
- ❖ **JSP Tag element include, forward, etc**
- ❖ **Convert HTML Template to JSP**
- ❖ **JSP to servlet implementation using program**
- ❖ **Servlet to JSP navigation**
- ❖ **Exception handling on JSP Normal Java Program**
- ❖ **JDBC (type1,type2,type3,type4)**
- ❖ **SQL revision (DDL,DML)**
- ❖ **Join Operation and Sub query Operation**
- ❖ **Create Procedure and implement it into Java application**
- ❖ **Login Form, Registration Form, Session, Cookies, ACL.**
- ❖ **CRUD Operation using JSP Servlet**
- ❖ **What is Java bean class, how to use in JSP and servlet**
- ❖ **What is MVC architecture, how to use it.**
- ❖ **How to implement security into Java web application**
- ❖ **How to use API on JSP and Servlet**
- ❖ **How to use email, message and payment gateway API**
- ❖ **File Uploading,AJAX,Validation**

Framework

Spring Core Framework:-

- ❖ **SPRING CORE Introduction**
- ❖ **Spring modules**
- ❖ **Core container of Spring**
- ❖ **IOC,Dependency, type of dependency**
- ❖ **AOP,SPRING**
- ❖ **SPRING JDBC**

SPRING MVC WEB FRAMEWORK:-

- ❖ **SPRING MVC WEB,**
- ❖ **Handler Mapping,**
- ❖ **Controllers,**
- ❖ **Validations,**
- ❖ **Handler interceptors**
- ❖ **Views**
- ❖ **Form tags**
- ❖ **Spring MVC Database operation**
- ❖ **Complete CRUD Operation**
- ❖ **Login, Registration, Session, Cookie**
- ❖ **Ajax implementation**
- ❖ **Design Layout using Spring Web MVC,**
- ❖ **Create API using Spring MVC**

HIBERNATE Framework

- ❖ **Hibernate Introduction**
- ❖ **Mapping and configuration files**
- ❖ **Create database and tables using hibernate.**
- ❖ **Add record into database using Hibernate**
- ❖ **POJO Class life cycle on hibernate**
- ❖ **Hibernate Select Query, Delete Query, Update Query**
- ❖ **Versioning on Hibernate**
- ❖ **Mapping on Hibernate**
- ❖ **Generators in Hibernate**
- ❖ **HQL in hibernate**
- ❖ **Criteria in Hibernate**
- ❖ **Projection concept in hibernate**
- ❖ **How to write native SQL query in hibernate**
- ❖ **Annotation in hibernate, relationship in depth**
- ❖ **Join in Hibernate**
- ❖ **Cache in hibernate, first level and second level cache**

SPRING BOOT SYLLABUS

SPRING BOOT WITH JPA,WEB,API

- ❖ **What is MICROSERVICES**
- ❖ **What is Spring boot, difference between Spring core and Spring MVC**
- ❖ **Spring boot starters,**
- ❖ **Spring boot annotations**
- ❖ **What is API, Restful API, how to create using Spring boot]**
- ❖ **What is application.proprties file**
- ❖ **How to change server port of tomcat**
- ❖ **How to reload changes without restarting the server**
- ❖ **JDBC + MYSQL configuration using SPRING Boot**
- ❖ **How to configure multiple data source**
- ❖ **How to deploy Spring boot on external server**
- ❖ **Spring boot + Spring Security**
- ❖ **How to configure cache in Spring Boot**
- ❖

- ❖ **CREATE REST API and CHECK WITH POSTMAN**

- ❖ **LIVE PROJECT IMPLEMENTATION**

Design tools

- ❖ **HTML5,CSS3,JS,Jquery,Angular**

Database and SDLC

- ❖ **SQL Query,Table,Relationship**
- ❖ **SDLC,E-R Diagram,DFD,CLASS Diagram, Use Case Diagram,SRS,Synopsys,Project Report**



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