



Delivery Method

- Instructor-Led-Training (ILT)

Course Duration

- 6 months or 6 Weeks

Pre-Requisites

You are required to have an understanding of Java Standard and Enterprise Editions and UML.

Overview

Java Platform:

The Java platform is a software-only platform that runs on top of other hardware-based platforms. Because hardware-based platforms vary in their storage, memory, network connection, and computing power capabilities, specialized **Java Training** are available to address applications development for and deployment to those different environments.

Course Contents

Diploma in Java – J2EE Application Development Framework

Module 1: SDLC

- Introduction to SDLC
- Stages in SDLC

Module 2: SQL SERVER 2005

- DDL, DML, DCL
- Constraints, Operators, Functions
- Joins & Sub Queries
- Stored procedures, Triggers, Transaction

Module 3: Core JAVA

- Object-Oriented Programming Concepts
- An overview of JAVA, Language Basics
- Introduction to Classes and Objects
- Member accessibility modifiers
- Other modifiers for Members
- Introduction to Packages
- Inheritance & Working with Interfaces
- Exception Handling, Generics
- Collection frameworks
- Threads and Synchronization
- Web based development using Java Applets
- Working with AWT
- Handling events for AWT Components
- File Handling and Data Handling
- I/O Streams
- JDBC
- Networks Socket Programming

Module 4: Web Application Technologies

- HTML
- Introduction to HTML
- Tag references
- Basic tags
- Text Formatting tags
- List, Frameset, Link & Image tag and its Attributes
- Table tag with attributes
- Form & Input Tags
- DHTML
- Introduction about DHTML
- Applying Styles using CSS
- Writing Style Sheet internally
- Writing Style Sheet externally
- XML
- Introduction about XML
- What is XML parser?
- About DTD & XML schema
- Defining Entities
- DOM & DSO



- Java Scripts
- Introduction about Client side Scripting
- JavaScript Basics
- Methods in JavaScript
- Form objects and its events
- Other objects & User defined objects
- Form validation

Module 5: Advanced JAVA Web Application Technologies

- Introduction to JEE
- Web Application Structure
- Model-View-Controller
- J2EE Design Pattern
- About Application server & Web Server

Module 6: Servlets

- What is Servlet?
- Roles and Life Cycle of Servlets
- Configuring Servlet in Tomcat WebServer
- Generic Servlet & HTTP servlet
- Servlet API
- Handling HTTP Request & Response
- ServletContext and ServletConfig
- Session Management
- Using Hidden form fields & URL Rewriting
- Using Cookies & HttpSession Object
- Creating Filters
- Java Database Connectivity (JDBC) with DAO

Module 7: Java Server Pages (JSP)

- Life cycle of JSP
- Basic Tag Syntax
- Directives
- Implicit Objects
- Custom tags Reusable
- Dispatching with RequestDispatcher
- JavaBeans Component Model
- Web Presentation Components
- Security

Module 8: Struts

- Introduction
- Struts for Internationalisation
- Struts for Forums Templates
- Beans to XML Introducing AspectJ
- Ant for Compilation and Distribution

Module 9: RMI & EJB

- Introduction about Distributed Computing
- RMI
- Introduction about RMI

- Related Technologies
- RMI over IIOP
- EJB
- Enterprise Java Beans
- EJB 2.x Overview
- Session Bean (EJB 2.x)
- Introduction to Java Annotations
- Session Bean (EJB 3.0)
- Message Driven Bean
- Java Message Service(JMS)
- Introduction
- JMS overview and architecture
- Point-to-point interfaces
- Point-to-point programming
- Pub/sub interfaces
- Pub/sub programming
- JQuery

Module 10: Hibernate & Spring

- Introduction to Windows Presentation Foundation

Hibernate:

- Introduction
- Architecture
- Configuration
- Persistent Classes
- Basic O/R Mapping
- Collection Mapping

Spring:

- Introduction
- Building web applications with the Spring Framework
- The Multi Action controller

Module 11: AJAX & Web Services

- AJAX
- Basic AJAX Process
- Using dynamic content and JSP
- Sending data through Get /Post method
- Parsing and displaying XML results
- Web service, Introduction to Web Service
- Java API for XML Parsing and Transformation
- SOAP
- WSDL and JAX WS
- Develop Web Service



Module 12: Aptitude Skills

- Quantity Aptitude
- Percentages
- Time and Work Problems
- Profit and Loss Problems
- Time and Distance Problems
- Problems on Age and Relations
- Direction Problems
- ODD Man Out and Series Problems
- Puzzles
- Verbal and Non Verbal Reasoning

Module 13: Soft Skills

- Quantity Aptitude
- Personality Development and Enhancement
- Positive Thinking, Effective Communication
- Presentation Skills
- Leadership and Team Work
- Inter-Personal Skills
- Resume Building
- Group Discussions
- Interview Etiquettes

PROJECTS:

- Designing a user friendly project using Swing with database connectivity
- Designing a web based application project using Servlet/JSP with database connectivity