

# Indus – IT Training

**Course: Java/J2EE Training Course Curriculum**

**Duration: Six Weekends -Approx. 60hrs / (Sat & Sun: 1.30pm – 5.30pm)**

## \*\*\*\*\*Core Java Programming \*\*\*\*\*

- Introduction to Java and language fundamentals
- Declaration and Access Control
- Operators and Assignments
- Flow control. Exception handling
- Object orientation, Overloading and Overriding, Constructors and Return types
- java. Lang.\* -The Math class, String and Wrappers , String Tokenizer
- Collections
- Threads
- Java File I/O
- JDBC

## \*\*\*\*\* JSP & Servlets \*\*\*\*\*

- MVC Architecture
- Integrating Eclipse with Tomcat web server
- Concept of Servlet , Servlet life cycle
- Request Response Architecture
- A Simple Hello World Servlet , Get Vs POST
- Using Servlet Config, Servlet Context, Request Dispatcher
- Posting HTML form and invoking Servlet
- Session Handling, session timeouts,
- Handling cookies
- Introduction to JSP, JSP life cycle
- How to use scriptlets, JSP action, use Bean tags in code
- Understanding JSP implicit objects.
- Exception handling, Session handling with example
- JSP Authentication, Roles etc.
- Project using Servlets and JSP

## \*\*\*\*\*Introduction to Struts \*\*\*\*\*

- Objectives
- Review: MVC model
- what is Struts?
- Struts flow
- Creating a web application using struts and using Log4j and exploring the . application.

## \*\*\*\*\*EJB \*\*\*\*\*

- Integrating Eclipse with BEA Web logic Application server
- Enterprise JavaBeans Communication
- EJB Details
- Session Beans
- Entity Bean
- Message Driven Bean

**Location: 1033 Sterling Road, Ste. 204, Herndon-VA-20170. USA.**  
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**(Intersection of Sterling Road & Elden Street in Herndon)**

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## \*\*\*\*\*The Details of Writing Beans \*\*\*\*\*

- EJB Development Overview
- The Enterprise Bean Class
- The Remote Interface
- The Home Interface
- Deployment Descriptors and EJB-JAR files

## \*\*\*\*\*Java Message Service (JMS) \*\*\*\*\*

- The principles of messaging systems
- Features of the Java Messaging Service (JMS)
- Writing a message driven Bean
- Message Driven Bean Clients

## \*\*\*\*\*Writing an EJB Client \*\*\*\*\*

- The steps needed to write an EJB client
- Calling Session bean from a client program
- Calling Entity bean from a client program
- Calling MDB from a client program

## \*\*\*\*\*UML and Class Design \*\*\*\*\*

- Introduction to UML
- Basic class diagrams and UML

## \*\*\*\*\*Introduction to ANT\*\*\*\*\*

- Creating Build script using ANT

## \*\*\*\*\*XML\*\*\*\*\*

- Concept of XML
- Introduction to DTD and XML Schema
- Introduction to DOM, SAX with examples. Dom Vs. SAX comparison
- Introduction to JAXB with an example

## \*\*\*\*\*Web Services, AJAX, Hibernate, Spring\*\*\*\*\*

- Overview of Web Services with an example
- Overview of AJAX with an example
- Overview of Hibernate and Spring with an examples.

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