

# Wizards Training Inc.

## Java/J2EE Training Course Curriculum

Duration: Four Weekends/ Sat & Sun: 9.00am – 1.00pm or 1.00pm – 5.00pm

Weekdays - Mon, Wed, Fri: 6.30pm – 9.30pm or Tue, Thu: 6.30pm – 9.30pm

### \*\*\*\*\*Core Java Programming \*\*\*\*\* 10 hours

- 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 \*\*\*\*\* 10 hours

- 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 \*\*\*\*\* 10 hours

- Objectives
- Review: MVC model
- what is Struts?
- Struts flow
- Creating a web application using struts

### \*\*\*\*\*XML\*\*\*\*\* 4 hours

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

Training Location: 1039 Sterling Road, Ste. 103, Herndon-VA-20170. USA.

Ph: 703-867-7699 Fax: 703-956-6769 training @wizardstraining.net

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- Introduction to JAXB with an example

### \*\*\*\*\* Hibernate \*\*\*\*\* 10 hours

- Introduction to Hibernate
- OR-Mapping
- JDBC vs ORM
- Definition of Hibernate
- Features of Hibernate
- Hibernate Architecture
- Introduction to Hibernate configuration file
- Introduction to POJO Class
- Roll of Hibernate Mapping file
- Session Factory and Session Object
- Bulk operations using HQL, Criteria API and Native SQL

### \*\*\*\*\* Spring\*\*\*\*\*15 hours

- Introduction to Dependency Injection or Inversion of Control
- Spring Bean and Sample Bean Definition
- Bean Factory and Application Context
- Spring Core Module
- Spring DAO Module
- Spring ORM Module
- Spring MVC Module
- Spring WEB Module
- Spring AOP Module
- Spring Context Module

### \*\*\*\*\*Adobe Flex \*\*\*\*\* 4 hours

- Introduction to Adobe Flex
- Adobe Flex Features
- Adobe flex Components

### \*\*\*\*\*Web Services \*\*\*\*\* 2 hours

- Overview of Web Services with an example

### \*\*\*\*\* AJAX \*\*\*\*\* 2 hours

- Overview of AJAX with an example

### \*\*\*\*\*EJB \*\*\*\*\* 6 hours

- Integrating Eclipse with BEA Web logic Application server
- Enterprise JavaBeans Communication
- EJB Details

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- Session Beans
- Entity Bean
- Message Driven Bean

### \*\*\*\*\*UML and Class Design \*\*\*\*\* 2 hours

- Introduction to UML
- Basic class diagrams and UML

### \*\*\*\*\*Introduction to ANT\*\*\*\*\* 1 hour

- Creating Build script using ANT

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