



Enhanced Network Solutions Group

Systems Integration • Learning Solutions • CIO Consulting
Managed Outsourcing • Healthcare Solutions • Security Solutions

7224 Engle Road - Fort Wayne, IN 46804 - Phone: (260) 432-1364 - Fax: (260) 432.3168

Java Web Development

J2SE-WD Rev 10.10

5 days

Description

This course covers the fundamental technologies and techniques required to create web applications using Java. It shows how to handle common servlet tasks such as setting and reading HTTP headers, threading requirements, techniques for storing state information (i.e. cookies, URL re-writing, hidden fields), the session management APIs, gathering parameters, handling different content (i.e. HTML, plain text, spreadsheets, images), database access from servlets, and more. In JSP technologies, this class covers the different types of JSP content (scriptlets vs. JSP tags), property management, using Java Beans within JSP, controlling scoping, and design techniques.

Prerequisites

- *Java Fundamentals, or equivalent experience*
- *A basic knowledge of the Java programming language and experience with Java application development*
- *A basic understanding of how applications process data and information*
- *Familiarity with Web browsers and Web applications*

Course Outline

Installation

- Java EE
- Tomcat

Introduction to HTTP Servlets

- HTTP Servlet Basics
- Request and Response Objects

Servlets and Containers

- Generic Servlet
- Servlet Containers
- Servlet Lifecycles

Servlet, Server, and Client Info

- Getting Information off the Client Request
- Getting Information about the Web Server

Responding to the Client

- The HTTPResponse Object
- Producing Output
- MIME Type Settings

Tracking Sessions

- Stateless Web Issues
- Using the Session Object



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Servlet Database Connectivity

- JDBC Development in Servlets

JSP Fundamentals

- Introduction to JavaServer Pages
- JSP Page Structure
- Basic JSP Syntax

JSP Actions and Objects

- Using Built-in Objects
- Understanding JSP Actions

Writing and Using Java Beans

- Rules for Creating Java Beans
- Using Java Beans in JSP Pages

Databases and JSP

- JDBC Development in JSP

Handling Errors and Debugging

- Syntax Errors
- Handling Exceptions
- Reporting Errors to Clients
- Finding Bugs

JSP Application Design

- MVC Design Pattern
- Page Centric Design
- Servlet Centric Design

Deploying Web Applications

- Web Deployment Descriptor
- File/Directory Structure
- Web.xml

Ant Build Files

- Using Scripts
- Installing ANT
- Creating an ANT Build File

Custom Tag Libraries and JSTL

- Understanding Tag Libraries
- Introduction to JSTL



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