

Training: Capstone Courseware  
113 The JSP Standard Tag Library

## TRAINING GOALS:

### Version 1.1

This two-day module introduces the **JSTL**, or **JSP Standard Tag Library**, actually a set of four custom tag libraries that establish a portable standard for common processing tasks in JSP. JSTL is a major part of the new scriptless authoring style encouraged (and enabled) by the JSP 2.0 specification. This module covers all four JSTL libraries in depth:

- The core actions, which support JSP expressions for JSP 1.x containers, flow control for procedural processing in JSPs, and resource access
- The formatting and internationalization/localization actions, which standardize formatted numeric and date/time output as well as multi-language support
- The SQL actions, which dramatically simplify access to relational data from a JSP
- The XML actions, which give JSPs a simple, powerful framework by which to parse, address and transform XML data using XPath and XSLT

Each individual tag in each library is covered, with precise syntactic rules shown in a standard format in the student guide, and JSTL techniques and best practices are discussed for each library. An extensive set of example applications illustrates common usage of each major group of actions, and the module culminates with a wrap-up workshop that brings core, SQL, and XML techniques to bear in a single application.

## CONSPECT:

- Chapter 1. JSTL Overview
  - The JSP Standard Tag Library
  - The JSP Expression Language
  - EL Syntax
  - Type Coercion
  - Error Handling
  - Implicit Objects for EL
  - JSTL Namespaces
  - Using JSTL in a Page
  - The Core Actions

- Going Scriptless
- Object Instantiation
- Sharing Objects
- Decomposition
- Parameterization
- Chapter 2. The Core Actions
  - The JSTL Core Library
  - Gotchas
  - Conditional Processing
  - Iterative Processing
  - Iterating Over Maps
  - Tokenizing Strings
  - Catching Exceptions
  - Resource Access
- Chapter 3. The Formatting and i18n Actions
  - The JSTL Formatting Library
  - Locales
  - Determining Locale
  - Time Zones
  - Setting Locale and Time Zone
  - Formatting and Parsing Dates
  - Formatting and Parsing Numbers
  - Internationalization
  - Working with Resource Bundles
  - Supporting Multiple Languages
- Chapter 4. The SQL Actions
  - The JSTL SQL Library
  - Using Relational Data
  - Connecting with a DriverManager
  - Connecting via a DataSource
  - The Result Interface
  - Making a Query
  - Inserts, Updates and Deletes
  - Parameterized SQL
  - Transactions
- Chapter 5. The XML Actions

- The JSTL XML Library
- Using XML
- XML Data Sources
- Parsing and Addressing
- Using XPath in JSTL
- XPath vs. EL
- XPath Context
- Implicit Objects for XPath
- Conditional Processing
- Iterative Processing
- Changing XPath Context
- Working with XML Namespaces
- Using XSLT
- Chaining Transformations
- Reading XML from the Request Body
- XML and SOAP Web Services

## REQUIREMENTS:

- Students should be well-versed in JSP page authoring. Knowledge of [JSP](#) 2.0 is a plus, but is not required; the module's primary audience is JSP 1.x authors. Course 112 is excellent preparation.

## Difficulty level



## CERTIFICATE:

The participants will obtain certificates signed by Capstone Courseware.

## TRAINER:

Authorized Capstone Courseware Trainer.