

**Price:** R6,900.00 excl. VAT  
**Duration:** 3 days  
**Code:** STRTS

# Jakarta Struts Development

## Description

The Jakarta Struts Development course focuses on using the Struts framework for developing robust servlet/JSP applications. This course provides the experienced servlet/JSP developer with a solid Struts overview and hands-on practice. Delegates will learn the Struts tag libraries and the components that make up the architectural framework, as well as Struts best practices.

## Objectives

Delegates who complete the Jakarta Struts Development course will be able to:

- Integrate servlets, JSPs, JavaBeans and Struts in a MVC architecture.
- Write Struts applications.
- Use the Struts tag libraries.
- Write and deploy Struts web applications.

## Intended Audience

The Jakarta Struts Development course is aimed at experienced server-side Java programmers who are already doing servlet/JSP development and are migrating to, or interested in, the Jakarta Struts architecture, and need to create, deploy and maintain robust web applications using the Struts framework.

## Prerequisites

Our Java Programming course or equivalent experience in Java programming is essential, as well as the Java Servlets and JSP course and a good knowledge of basic HTML.

## Course Contents

*The lecturer reserves the right to modify the contents of the course to suit the needs of the delegates.*

**Servlet/JSP Overview** • Model 1 vs. Model 2 JSP development. • JSP, Servlets and JavaBeans integration. • The Model 2 MVC (Model-View-Controller) architecture. • Struts implementation of the Model 2 architecture. • JSP Standard Tag Library (JSTL). • Expression Language (EL).

**Jakarta Struts Overview** • Current Struts specification and the future of Struts. • Struts Action framework as the original request-based framework. • Struts Shale framework as a component-based framework for JavaServer Faces.

**Struts components** • Struts generic controller servlet. • Controller components: Actions.  
• View components: ActionForms. • Configuration: ActionMappings. • User validation: ActionErrors and validators. • Model components: JavaBeans. • DynaBeans and DynaForms.  
• Struts configuration with struts-config.xml.

**Struts tag libraries** • Struts HTML tags: rendering basic HTML elements. • Struts Bean tags: accessing resources and bean properties. • Struts Logic tags: conditional presentation logic.  
• Struts tiles tag library: creating document templates.

**Miscellaneous** • Struts best practices. • Model 2X: an enhancement of Struts with XML and XSLT. • JavaServer Faces (JSF) overview. • Tiles overview. • Other MVC frameworks.  
• Enterprise JavaBeans, the EJB container and servlets.