

**Price:** R8,600.00 excl. VAT  
**Duration:** 5 days  
**Code:** JSJSP

# Java Servlets and JSP Programming

## Description

The Java Servlets and JSP Programming course focuses on the development of web applications using Java servlets and Java Server Pages. Topics include client/server architecture, Java servlets, cookies and sessions, JSP syntax, Expression Language (EL), custom tags and the JSP Standard Tag Library (JSTL) and the Model-View-Controller (MVC) architecture.

## Objectives

Delegates who complete the Java Servlets and JSP Programming course will be able to:

- Write Java servlets, JSP pages and JavaBeans.
- Integrate servlets, JSPs and JavaBeans in a MVC architecture.
- Develop and use custom tags and the JSTL.
- Develop filters and event listeners.
- Use JSP version 2.0 Expression Language.
- Deploy and package web applications.

## Intended Audience

Experienced Java programmers who need to create, deploy and maintain robust web applications using servlets, JSPs, custom tags, JSTL, Expression Language and JavaBeans. This course is aimed at companies and individuals who are already doing JEE development and need training in the specific servlet and JSP aspects of the JEE architecture.

## Prerequisites

Our Java Programming course or equivalent Java programming experience is essential, as well as the Web Development with HTML and CSS course or a good knowledge of basic HTML. The JEE overview course is recommended.

## Course Contents

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

**Web Development Overview** • Client/server architecture. • Client-side and server-side web application development. • Technology comparison: CGI, ColdFusion, Perl, ASP, ASP.NET.

**Web Applications** • Servlet architecture and technologies. • Use of servlets and JSP pages. • Deployment descriptors. • The format and packaging of web applications.

**Java Servlets** • Servlet lifecycle. • HTTP request and response objects. • Client request parameters and form data. • Server responses, headers and status codes. • Cookie and session objects.

**Session tracking** • Using cookies and the cookie API. • Session tracking with the session API.

**Java Server Pages** • JSP expressions, scriptlets, declarations and directives. • Custom tags and the JSP Standard Tag Library (JSTL). • JSP version 2.0 Expression Language.

**MVC architecture** • Overview and benefits. • Developing and accessing JavaBeans. • Forwarding requests. • Accessing Enterprise JavaBeans (EJBs).

**Miscellaneous** • Filters and event listeners. • JavaServer Faces (JSF). • Struts, Spring, Tiles.