

Java Web Services

Prerequisites

You should know how to develop a complete Web App like the one we do in our [Spring MVC](#) course.

Intended Audience

Java Web Developers who want to improve/consolidate their skills in web services

After this course you should be able to

- Develop REST-style and SOAP-based web services and clients with this quick and thorough introduction.
- Prepare for the Java EE 6 Web Services Developer Certified Expert 1Z0-897 exam

Course Material

Supplied in electronic format

Course Contents

Day 1

Web Services Quickstart

- Web Service Miscellany
 - What Good Are Web Services?
- Web Services and Service-Oriented Architecture
- A Very Short History of Web Services
 - What Is REST?
- Review of HTTP Requests and Responses
 - HTTP as an API
 - A First RESTful Example
 - Why Use Servlets for RESTful Web Services?

Day 2

RESTful Web Services: The Service Side

- A RESTful Service as an HttpServlet
- A RESTful Web Service as a JAX-RS Resource
- A RESTful Web Service as Restlet Resources
 - A RESTful Service as a @WebServiceProvider

RESTful Web Services: The Client Side

- A Perl Client Against a Java RESTful Web Service
 - A Client Against the Amazon E-Commerce Service
 - A Standalone JAX-B Example
- Another Client Against the Amazon E-Commerce Service
 - The CTA Bus-Tracker Services
- RESTful Clients and WADL Documents
 - The JAX-RS Client API
 - JSON for JavaScript Clients

Day 3

SOAP-Based Web Services

- A SOAP-Based Web Service
 - The RandService in Two Files
 - Clients Against the RandService
- The WSDL Service Contract in Detail
- SOAP-Based Clients Against Amazon's E-Commerce Service

SOAP Handlers and Faults

- The Handler Level in SOAP-Based Services and Clients
 - Handlers and Faults in the predictionsSOAP Service
- A Handler Chain with Two Handlers
- SOAP-Based Web Services and Binary Data
 - The Transport Level
 - Axis2

Day 4

Web Services Security

- Wire-Level Security
- A Very Lightweight HTTPS Server and Client
 - HTTPS in a Production-Grade Web Server
 - Container-Managed Security
 - WS-Security

Day 5

Web Services and Java Application Servers

- The Web Container
 - Toward a Lightweight JAS
 - GlassFish Basics
- Servlet-Based Web Services Under GlassFish
- An Interactive Website and a SOAP-Based Web Service
 - A @WebService as a @Stateless Session EJB
 - TomEE: Tomcat with Java EE Extensions
 - Where Is the Best Place to Be in Java Web Services?

Duration and pricing

- In pricing Group A

Certificate

- [Please read about our certificates](#)

Bookings

You can download the course registration form on our home page or by clicking [here](#)

Brochure

You may download a pdf copy of this page by clicking on the pdf icon at the top of the page.

Questions

Please [email us](#) Schedule On the calendar below. If your browser doesn't display the calendar below, please click on [this link](#) or try using [Google Chrome](#), alternatively please enquire via our [Contact Us](#) page.
