

Training: Capstone Courseware
560 Overview of Java Web Services



TRAINING TERMS

2025-05-23 | 1 day | Virtual Classroom

TRAINING GOALS:

This course provides an **overview of web services development in the Java EE platform**, starting with a look at interoperable standards and then delving into Java technology to implement them. We look at both the SOAP-oriented and RESTful schools of service architecture. Then we look at examples of services developed using the APIs that are standard to the Java EE 6 platform: JAX-WS, SAAJ, and JAX-RS in particular.

Though it includes plenty of code and message-content details, and some short labs at the end of the day, this course is intended to be useful both to Java developers and to non-developers who wish to gain familiarity with the key concepts of web services and Java WS technology.

CONSPECT:

- Chapter 1. Overview of Web Services
 - Why Web Services?
 - Service-Oriented Architecture
 - HTTP and XML
 - SOAP
 - WSDL
 - The SOAP Vision
 - The REST Vision
 - UDDI
 - The WS-I Basic Profile
 - Security
- Chapter 2. Web Services for Java EE
 - Hosting Web Services: Scenarios
 - Web Services for Java EE
 - JAX-WS and JAXB
 - Web-Services Metadata

- WSDL-to-Java and Java-to-WSDL Paths
- Provider and Dispatch APIs
- SAAJ and JAXP
- JAX-RS for RESTful Services
- JAXR

Appendix A. Course Tools and Utilities

Appendix B. Handy Guide to Web-Services Acronyms

REQUIREMENTS:

- **Java programming** experience is assumed, and is necessary for the lab exercises. But those without Java skills can still profit from taking the course, so this is not a hard prerequisite.

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by Capstone Courseware.

TRAINER:

Authorized Capstone Courseware Trainer.