

Java EE

Prerequisites / Further Training

You should be past the [Java Advanced](#) level

Intended Audience

This course is intended for Java Programmers who have mastered Java JSE and wants a thorough introduction to JEE .

After this Course

You should be familiar with the latest facilities and features of Java EE . Create Web Applications with Java using best practices. Servlets, JSF, primeFaces, JPA, Session Beans, CDI, JMS, Web Services with JAX-WS, JAX-RS. Build a Java Web Application that utilise all these features.

Course Material

- Included in the course price.
- Based on Java EE 7

Course Contents

Day 1

Introduction to JavaServer Faces

- Developing our first JSF application
- Facelets templating
- Resource library contracts
- Composite components
- Faces flows
- HTML5 support

JSF Component Libraries

- Using PrimeFaces components in our JSF applications
- Using ICEfaces components in our JSF applications
- Using RichFaces components in our JSF applications

Day 2

Interacting with Databases through the Java Persistence API

- Creating our first JPA entity
- Automated generation of JPA entities
- Generating JSF applications from JPA entities

Implementing the Business Tier with Session Beans

- Introducing session beans
- Creating a session bean
- Accessing the bean from a client
- Session bean transaction management
- Implementing aspect-oriented programming with interceptors
- The EJB Timer service
- Generating session beans from JPA entities

Day 3

Contexts and Dependency Injection

- Introduction to CDI
- Qualifiers
- Stereotypes
- Interceptor binding types
- Custom scopes

Messaging with JMS and Message-driven Beans

- Introduction to JMS
- Creating JMS resources from NetBeans
- Implementing a JMS message producer
- Consuming JMS messages with message-driven beans

Day 4

Java API for JSON Processing

- The JSON-P object model API
- The JSON-P streaming API

Java API for WebSocket

- Examining the WebSocket code using samples included with NetBeans
- Building our own WebSocket applications

Day 5

RESTful Web Services with JAX-RS

- Generating a RESTful web service from an existing database
- Testing our RESTful web service
- Generating RESTful Java client code
- Generating RESTful JavaScript clients for our RESTful web services

SOAP Web Services with JAX-WS

- Introduction to web services
- Creating a simple web service
- Exposing EJBs as web services

Duration and pricing

[Price Group A](#)

Certificate

[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.