

# Java web development e-learning channel

*Practical course - 1d - 10h28 - Ref. 8JA*

*Price : 290 € E.T.*

Développez vos compétences en Java et libérez tout le potentiel de ce langage polyvalent. Des bases aux techniques avancées, notre chaîne spécialisée vous offre les outils et les connaissances nécessaires pour construire des applications Java robustes et évolutives. Êtes-vous prêt à rejoindre la communauté des développeurs Java ?

## Teaching objectives

**At the end of the training, the participant will be able to:**

- ✓ Set up the development environment with the Eclipse IDE and the Tomcat web container.
- ✓ Learn about essential servlet and JSP components.
- ✓ Use a connection pool to access a relational database using the JDBC API.
- ✓ Use HTTP/2 protocol.
- ✓ Configuring a Spring application.
- ✓ Access data in Java via the JDBC API, templates and persistence frameworks.
- ✓ Create modern web interfaces with Spring.
- ✓ Implement uniform application security with the Spring Security add-on module.

## Intended audience

Developers, application designers and software architects

## Prerequisites

No special knowledge required.

### PARTICIPANTS

Developers, application designers and software architects

### PREREQUISITES

No special knowledge required.

### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

### TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

## Practical details

### Digital activities

IT structure: recorded courses, expert videos and best practice sharing.

### Mentoring

L'option tutorat propose un accompagnement personnalisé par un formateur référent ORSYS, expert du domaine. Adapté aux besoins, aux capacités et au rythme de chaque apprenant, ce tutorat combine un suivi asynchrone (corrections personnalisées d'exercices, échanges illimités par message...) et des échanges synchrones individuels. Bénéfice : une meilleure compréhension, le développement des compétences et un engagement durable dans la formation.

### Pedagogy and practice

A wealth of content produced by trainers following a rigorous pedagogical approach. During each course, operational cases are commented on by experts to help learners put into practice what they have just learned. To help learners anchor their memory, each content item is broken down into short sequences of 3 to 10 minutes. This enables each learner to learn dynamically and independently.

#### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

#### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at [psh-accueil@orsys.fr](mailto:psh-accueil@orsys.fr) to review your request and its feasibility.

## Course schedule

### 1 Java EE, learn the fundamentals of web development in Java

- Introduction to Java EE.
- Introducing servlets.
- Introducing JSPs.
- Introduction to the JDBC API in a web context.
- Introduction to complementary notions and conclusion.

### 2 Spring, implementing the framework for Java applications

- Introduction to Spring.
- Introduction to the basic principles of the Spring lightweight container.
- Introduction to the fundamental concepts of the Spring framework.
- Configuring Spring applications.
- Managing data access in Spring framework.
- Introducing web applications: Spring MVC.
- Service integration in Spring.
- Security management for Spring applications.