

# Red Hat Application Development I: Programming in Java EE («AD183»)

In this course you will learn as a Java SE developer to write Java EE applications.

**Duration:** 4 days

**Price:** 2'600.–

**Vendor code:** JB183

## Content

In this course, you will learn about the various specifications that make up Java EE. Through hands-on labs, you will transform a simple Java SE command line application into a multi-tiered enterprise application using various Java EE specifications, including Enterprise Java Beans, Java Persistence API, Java Messaging Service, JAX-RS for REST services, Contexts and Dependency Injection (CDI), and JAAS for securing the application.

- **Transition to multi-tiered applications**
  - Describe Java EE features and distinguish between Java EE and Java SE applications
- **Package and deploying applications to an application server**
  - Describe the architecture of a Java EE application server, package an application, and deploy the application to an EAP server
- **Create Enterprise Java Beans**
  - Develop Enterprise Java Beans, including message-driven beans
- **Manage persistence**
  - Create persistence entities with validations
- **Manage entity relationships**
  - Define and manage JPA entity relationships
- **Create REST services**
  - Create REST APIs using the JAX-RS specification
- **Implement Contexts and Dependency Injection**
  - Describe typical use cases for using CDI and successfully implement it in an application
- **Create messaging applications with JMS**
  - Create messaging clients that send and receive messages using the JMS API
- **Secure Java EE applications**
  - Use JAAS to secure a Java EE application
- **Comprehensive review of Red Hat JBoss Development I: Java EE**
  - Demonstrate proficiency of the knowledge and skills obtained during the course

## Key Learnings

- Generating multi-tiered Java EE applications
- Packaging and deploying Java EE applications
- Creating Enterprise Java Beans, including message-driven beans
- Managing persistence
- Creating REST services with JAX-RS
- Implementing Contexts and Dependency Injection
- Creating messaging applications with JMS
- Securing Java EE applications with JAAS

## Target audience

This course is designed for Java developers who want to learn more about the specifications that comprise the world of Java Enterprise Edition (Java EE).

## Any questions?

We are happy to advise you on +41 44 447 21 21 or [info@digicomp.ch](mailto:info@digicomp.ch). You can find detailed information about dates on [www.digicomp.ch/courses-it-provider/red-hat/red-hat-jboss-eap/course-red-hat-application-development-i-programming-in-java-ee-jb183](http://www.digicomp.ch/courses-it-provider/red-hat/red-hat-jboss-eap/course-red-hat-application-development-i-programming-in-java-ee-jb183)