

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

**Duration:** 4 Days

**Prerequisites:**

- Proficiency in developing Java SE applications, with 2+ years of experience required
- Proficiency in using an IDE such as Red Hat Developer Studio or Eclipse
- Experience with Maven is recommended but not required

**Course Description:**

Red Hat Application Development I: Programming in Java EE (AD183) exposes experienced Java Standard Edition (Java SE) developers to the world of Java Enterprise Edition (Java EE).

This course is based on Red Hat® Enterprise Application Platform 7.0.

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.

**Intended 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).

**Course Outlines:**

**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.

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