

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

Price
\$3,200.00

Duration
5 Days

Delivery Methods
VILT, Private Group



As an experienced Java Standard Edition (Java SE) developer, this course introduces you to the world of Java Enterprise Edition (Java EE). 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. This course is based on Red Hat® Enterprise Application Platform 7.0.

Who Should Attend

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), 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 Objectives

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

Agenda

1 - TRANSITION TO MULTI-TIERED APPLICATIONS

- Describe Java EE features and distinguish between Java EE and Java SE applications.

2 - PACKAGE AND DEPLOY 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.

3 - CREATE ENTERPRISE JAVA BEANS

- Develop Enterprise Java Beans, including message-driven beans.

4 - MANAGE PERSISTENCE

- Create persistence entities with validations.

5 - MANAGE ENTITY RELATIONSHIPS

- Define and manage JPA entity relationships.

6 - CREATE REST SERVICES

- Create REST APIs using the JAX-RS specification.

7 - IMPLEMENT CONTEXTS AND DEPENDENCY INJECTION

- Describe typical use cases for using CDI and successfully implement it in an application.

8 - SECURE JAVA EE APPLICATIONS

- Use JAAS to secure a Java EE application.

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- Use JAAS to secure a Java EE application.

10 - COMPREHENSIVE REVIEW OF RED HAT JBOSS DEVELOPMENT I: JAVA EE

- Demonstrate proficiency of the knowledge and skills obtained during the course.