

Red Hat Application Development I: Programming in Java EE with Exam (EX183) (AD184)

ID AD184 **Price 2,936.—** €(excl. tax) **Duration 5 days**

Course Overview

Red Hat Application Development I: Programming in Java EE with exam (AD184) exposes experienced Java Standard Edition (Java SE) developers to the world of Java Enterprise Edition (Java EE).

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.

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).

This course is part of the following Certifications

Red Hat Certified JBoss Developer (RHCJD)

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 Objectives

This course is intended to develop the skills needed to make the transition from Java SE programming to Java EE programming. This course introduces core concepts of multi-tiered Java Enterprise applications and gives you experience writing,

deploying, and testing Java EE applications. You will use various tools from the Red Hat JBoss middleware portfolio, including JBoss Developer Studio, Maven, and the JBoss Enterprise Application Platform application server.

As a result of attending this course, you should be able to describe most of the specifications in Java EE 7 and create a component with each specification. You will be able to convert a Java SE program into a multi-tiered Java EE application. You should be able to demonstrate these skills:

- Describe the architecture of multi-tiered Java EE applications.
- Package Java EE applications and deploy to Red Hat JBoss Enterprise Application Platform with various tools.
- Create an Enterprise Java Bean instance.
- Manage the persistence of data using Java Persistence API.
- Create a web service using JAX-RS.
- Properly apply context scopes to beans and inject resources into Java Beans.
- Store and retrieve messages using the Java Messaging Service.
- Secure a Java EE application.

Course Content

Course content summary

- 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.

Detailed Course Outline

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.

About Fast Lane



Fast Lane is a global, award-winning specialist in technology and business training as well as consulting services for digital transformation. As the only global partner of the three cloud hyperscalers- Microsoft, AWS and Google- and partner of 30 other leading IT vendors, Fast Lane offers qualification solutions and professional services that can be scaled as needed. More than 4,000 experienced Fast Lane professionals train and advise customers in organizations of all sizes in 90 countries worldwide in the areas of cloud, artificial intelligence, cyber security, software development, wireless and mobility, modern workplace, as well as management and leadership skills, IT and project management.

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