Red Hat Application Development I: Programming in Java EE

Duration: 4 Days Course Code: AD183 Delivery Method: Virtual Learning

Overview:

Helping Java SE developers write Java EE applications.
Red Hat Application Development I: Programming in Java EE 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. 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.
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.
Note: *Starting January 2026 this course only exists in CR (classroom) if scheduled or Closed course modalities. No RHLS-Course for this course.*
You can get access to the e-learning course content by purchasing a RedHat RHLS Standard subscription (access to the entire RedHat E-learning offering) - Contact us
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Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

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).

Objectives:

- 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 with JAAS

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

Testing and Certification

- Experience with Maven is recommended but not required

Take RedHat free assessment to gauge whether this offering is the best fit for your skills. Red Hat Skills Assessment

Follow-on-Courses:

None

Content:

Transition to multi-tiered applications

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

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.

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.

Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves. For questions or confirmation on a specific objective or topic, contact one of our Red Hatters.

Additional Information:

Official course book provided to participants

Further Information:

For More information, or to book your course, please call us on +1 (800) 268 7737

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