

## Red Hat Application Development I: Programming in Java EE

**Duration: 4 Days**    **Course Code: AD183**    **Delivery Method: Company Event**

### 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

Updated Jan2026

#### Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

### 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
- Experience with Maven is recommended but not required

### Testing and Certification

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

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## Follow-on-Courses:

None

■ EX183 - Red Hat Certified Enterprise Application Developer Exam

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## Content:

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

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## Additional Information:

Official course book provided to participants

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## Further Information:

For More information, or to book your course, please call us on 0800/84.009

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[www.globalknowledge.com/en-be/](http://www.globalknowledge.com/en-be/)