

# Cloud-native Integration with Red Hat Fuse and Apache Camel (AD221)

**Duration:** 3 Days

**Prerequisites:**

- Experience with Java application development or Red Hat Application Development I: Programming in Java EE (AD183).
- Be proficient in using an IDE such as Visual Studio Code.
- Experience with Maven and version control is recommended, but not required.
- Experience with Red Hat OpenShift or Introduction to OpenShift Applications (DO101) is recommended, but not required.
- Take our free assessment to gauge whether this offering is the best fit for your skills.

**Course Description:**

Camel development is organized around:

- Routes that define a sequence or flow of processing.
- Processors that transform, interpret, and modify messages within a Camel route.
- Components that enable the creation of endpoints that interact with the outside world for acquiring and transmitting data.

Cloud-native Integration with Red Hat Fuse (AD221) emphasizes learning architectural patterns and implementing integration services based on Apache Camel and OpenShift. Camel and Red Hat Fuse enable developers to create complex integrations in a simple and maintainable format. You will learn how to use the most common integration components in Camel and develop, test, and deploy integration focused applications on OpenShift. This course is based on Red Hat Fuse 7.10 and OpenShift 4.

**Intended Audience:**

- This course is designed for Java developers focused on implementing integration solutions in an enterprise.

**Course Outlines:**

**Introduction to Red Hat Fuse and Camel**

- Describe the architecture of Red Hat Fuse and Camel and how they are used to integrate applications.

**Create Camel routes**

- Implement Camel routes and develop custom processors

**Implement enterprise integration patterns**

- Describe the most commonly used enterprise integration patterns and implement them using Camel components.

**Create tests for routes and error handling**

- Develop reliable routes by creating unit tests and mocks, and by handling errors.

**Integrate services using asynchronous messaging**

- Integrate microservices using Apache Kafka and ActiveMQ (JMS)

**Implement transactions**

- Provide data integrity in route processing by implementing transactions.

**Build and consume REST services**

- Implement and consume REST services with Camel.

**Integrate cloud-native services**

- Deploy cloud-native microservices based on Camel Routes and Camel K components to an OpenShift cluster.

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