

## Cloud-native integration with Red Hat Fuse (AD221)

### Course Outline

#### **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