

Camel Integration and Development with Red Hat Fuse on OpenShift («AD421»)

Learn to develop, implement, test, and deploy enterprise integration patterns (EIP)-based applications using Apache Camel

Duration: 4 days

Price: 4'550.–

Vendor code: JB421

Content

Camel Integration and Development with Red Hat Fuse on OpenShift (AD421) is a hands-on, lab-based course that gives Java™ developers and architects an understanding of Apache Camel and the enhancements and tools Red Hat offers in support of Camel development.

This course is based on Red Hat® Enterprise Linux® 7.5, Red Hat® OpenShift® Container Platform 3.9, Red Hat® Fuse 7.1, and Apache Camel 2.21.

Outline:

Introduce Red Hat Fuse and Camel

Describe how Red Hat Fuse and Camel are used to integrate applications.

Create routes

Develop simple Camel routes.

Transform data

Convert messages between data formats using implicit and explicit transformation.

Create tests for routes and error handling with Camel

Develop reliable routes by developing route tests and handling errors.

Route with Java beans

Create dynamic routes in Camel using Java beans.

Implement REST services

Enable REST support on Camel with Java REST APIs.

Deploy Camel routes

Package and deploy Camel applications for deployment with Red Hat Fuse.

Implement transactions

Provide data integrity in route processing by implementing transactions.

Implement parallel processing

Improve route processing throughput using Camel parallel processing mechanisms.

Create microservices with Red Hat Fuse

Create microservices from Camel routes.

Deploy microservices with Red Hat Fuse on OpenShift

Deploy microservices based on Camel routes to an OpenShift cluster using Red Hat Fuse on OpenShift.

Perform comprehensive review

Demonstrate use of the knowledge gained in this course by coding Camel routes.

Key Learnings

- Create basic routes and integration solutions with Camel.
- Combine messages through aggregation.
- Develop tests with Camel test kit and mock components.
- Develop REST services with the REST DSL and Swagger.
- Deploy a route on Karaf, EAP, and Spring Boot.
- Increase route throughput with parallel processing.
- Deploy microservices with Red Hat Fuse on OpenShift.

Target audience

- Java developers who need to learn how to use Camel, implement enterprise integration patterns (EIPs), and develop integration applications with Camel
- Java architects who need to understand how Apache Camel can be used in software architectures requiring integration between applications

Further courses

- [Red Hat Certified Specialist in Camel Development \(«EX421»\)](#)

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-digital-transformation-technologies/cloud/course-camel-integration-and-development-with-red-hat-fuse-on-openshift-jb421