

## [JB421]: Red Hat JBoss Fuse Camel Development

Length : 4 Days  
Delivery Method : Instructor-led (Classroom)

### Course Overview

Red Hat® JBoss® Fuse Camel Development (JB421) is a hands-on, lab-based course that gives Java™ developers and architects an understanding of Apache Camel and Red Hat's Camel development enhancements and tools.

Participants will learn the skills to develop, implement, test, and deploy EIP-based applications using Camel. Camel development is organized around:

- Routes that define a sequence or flow of processing through one or more processors and endpoints
- Processors that massage, interpret, and modify messages within a Camel flow.
- Components used to create endpoints that interact with the outside world for acquiring and transmitting messages.

This course is based on Red Hat JBoss Fuse v6.3.

### Audience Profile

- Java developers and architects who need to learn how to implement EIPS with Camel and public custom components with Camel Fabric
- Java architects who need to understand how to use Apache Camel in software architectures requiring integration between applications

### At Course Completion

- Introduce Camel
- Create routes
- Transform data
- Route with Java Beans
- Implement representational state transfer (REST) services
- Deploy Camel routes
- Implement transactions
- Implement parallel processing

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## Recommended exam or training

- Red Hat Certificate of Expertise in Camel Development exam (EX421)
  - Demonstrate your ability to create and maintain enterprise integration services based on the Red Hat JBoss Fuse Camel framework and APIs.

## Pre-Requisites

- Experience developing and deploying Java EE 7 applications
- Familiarity with relational databases, Java database connectivity, and SQL
- Familiarity with Java development tools such as Maven and Eclipse
- Basic knowledge of Spring Framework

## Course Outline

### Module 1: Introduction to Camel

#### Lessons

- Learn to integrate applications and create simple routes with Camel

### Module 2: Create routes

#### Lessons

- Develop Camel routes and deploy them on JBoss Enterprise Application Platform and Karaf

### Module 3: Transform data

#### Lessons

- Convert messages between data formats using implicit and explicit transformation

### Module 4: Route with Java Beans

#### Lessons

- Create dynamic routes in Camel using Java Beans

### Module 5: Implement REST services

#### Lessons

- Enable REST support on Camel with Java REST APIs

### Module 6: Deploy Camel routes

#### Lessons

- Package and deploy camel applications for deployment in different environments

### Module 7: Implement transactions

#### Lessons

- Provide data integrity in route processing by implementing transactions

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## **Module 8: Implement parallel processing**

### **Lessons**

- Improve route processing throughput using Camel parallel processing mechanisms

## **Module 9: Red Hat JBoss Fuse Camel development comprehensive review**

### **Lessons**

- Implement three projects that address integration requirements of a real world integration application

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