

JB421VT Camel Development with Red Hat JBoss Fuse Virtual Course Summary

Description

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

Camel Development with Red Hat® JBoss® Fuse (JB421) 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.

Camel development is organized around:

- Processors that massage, interpret, and modify messages within a Camel flow.
- Components that enable creating endpoints which interact with the outside world either by acquiring or transmitting messages.

A Camel route defines a sequence or flow of processing through one or more processors or endpoints. Attendees will learn the skills required to develop, implement, test, and deploy enterprise integration patterns (EIP)-based applications using Camel.

This course can also help you in your preparation for the Red Hat Certificate of Expertise in Camel Development Exam (EX421).

Topics

- Architecture
- Understanding Camel routes
- EIP processors
- Graphical route editing and monitored execution
- Components (out-of-the-box and custom)
- Enterprise integration via Fuse Fabric
- Threading
- Transactions
- Testing

Audience

Java developers and architects who need to learn how to implement EIPs using Camel's features and capabilities.

Prerequisites

- Understanding of Java, including Java developments tools (i.e. Maven and Eclipse), and the Spring Framework
- Basic knowledge of and experience with Apache Maven

Duration

Three days

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Course Outline

- I. Introduction to Camel**
 - A. Understand an overview of major concepts which support the Camel environment including architecture, processors, components, and endpoints.
- II. Developing Camel applications using Maven and Fuse IDE**
 - A. Demonstrate the ability of the Fuse IDE to use both Maven and integrated development environment (IDE) tools to create, modify, execute, monitor, and debug Camel routes.
- III. Processors and components**
 - A. Learn about Camel route elements for messaging and analyzing messages via processors and EIPs. Discover how Camel route elements can consume messages from the outside world and transmitting them back into the world via components and endpoints.
- IV. Threading and transactions**
 - A. Understand various Camel mechanisms that use asynchronous threading to enhance performance. Get an overview of the transaction model implemented by Camel.
- V. Enterprise support via Fuse Fabric**
 - A. Discover the features of Red Hat JBoss Fuse's concept for extending access of Camel routes to a more robust and manageable enterprise environment, relieving the need for tedious configuration management.
- VI. Custom components**
 - A. Create and install a custom component as needed for specialized processing of messages into and out of the Camel environment.