

**Module Title : Course JB439 : Red Hat JBoss Fuse Rapid Track**

**Duration : 5 day**

## Course Overview

Learn the skills you need to develop and implement enterprise integration patterns (EIP) using Camel, and see how to deploy EIPs in [Red Hat JBoss Fuse](#)—an enterprise service bus (ESB) built on Apache ServiceMix. In addition, learn how to use [Red Hat JBoss A-MQ](#)—a messaging platform based on Apache Camel.

## Course content summary

- Core concepts of OSGi-based deployment and design
- How to rapidly implement, test, and debug EIPs
- Overview of advanced EIPs
- Fundamentals of message-oriented middleware (MOM), JMS concepts, and enhancements to JMS by [Red Hat JBoss A-MQ](#)
- Numerous broker topologies
- Performance-tuning techniques
- Configuration management using Fabric

## Audience

- Java developers and architects who need to learn how to implement EIPs using Camel, as well as how to use the messaging capabilities of [Red Hat JBoss A-MQ](#) (ActiveMQ).
- Integration system managers who need to configure and maintain networks of brokers and enterprise service bus (ESB) instances using features of Fuse Fabric.

## Prerequisites

Students attending this course should have:

- Understanding of the Spring framework and Java, including Java development tools (e.g., Ant, Maven, and Eclipse).
- Basic knowledge of and experience with Apache Maven.
- OSGi basic concepts.

## Content

### Introduction

- JBoss Fuse product family

### Red Hat JBoss Fuse

- Introduction
- Install and customize
- Management
- Implement of OSGi in production

### Red Hat JBoss A-MQ

- Install and configure
- Customize and integrate of network of brokers
- Increase availability and reliability
- Increase performance
- Connect using Java Message Services (JMS)

### Camel

- Introduction
- Develop integration solutions
- Perform basic data transformations
- Perform advanced data transformations
- Perform basic components
- Perform network-based components
- Test applications
- Manage error handling
- Threading and transactions
- Integrate Camel and Fabric