

# Red Hat Certified Specialist in Camel Development exam

Course code: EX421

The Red Hat Certified Specialist in Camel Development exam (EX421) tests your abilities to create and maintain enterprise integration services using Camel with Red Hat® Fuse. By passing this exam, you become a Red Hat Certified Specialist in Camel Development, which also counts toward becoming a Red Hat Certified Architect (RHCA®).

Affiliate	Duration	Course price	ITB
Praha	1	425 €	0
Bratislava	1	425 €	0

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
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The prices are without VAT.

### Who is the course for

- Enterprise Java developers who are familiar with service-oriented architecture (SOA) principles and are responsible for integrating enterprise applications.
- Enterprise SOA architects with some Java development experience and knowledge of enterprise integration.

### Required skills

- Have taken the Camel Development with Red Hat JBoss Fuse (RH421) course or have extensive work experience in enterprise integration using Apache Camel
- Have familiarity working in a Red Hat Enterprise Linux® environment
- Review the Red Hat Certificate of Expertise in Camel Development exam (EX421) objectives

### Preparation

Red Hat encourages you to consider taking Camel Integration and Development with Red Hat Fuse (JB421) to help prepare. Attendance in these classes is not required; students can choose to take just the exam.

While attending Red Hat classes can be an important part of your preparation, attending class does not guarantee success on the exam. Previous experience, practice, and native aptitude are also important determinants of success.

Many books and other resources on system administration for Red Hat products are available. Red Hat does not endorse any of these materials as preparation guides for exams. Nevertheless, you may find additional reading helpful to deepen your understanding.

### Exam format

This exam is a performance-based evaluation of your Camel development skills and knowledge. You will perform tasks associated with the development and maintenance of enterprise integration patterns using Red Hat Fuse. Performance-based testing means that you must perform tasks similar to those you perform on the job.

Internet access is not provided during this closed exam, and you will not be permitted to bring any hard copy or electronic documentation into the exam. This prohibition includes notes, books, or any other material. However, you are provided with a local copy of the official Fuse documentation. You should familiarize yourself with this documentation when preparing for the exam.

### Scores and reporting

Official scores for exams come exclusively from Red Hat Certification Central. Red Hat does not authorize examiners or training partners to report results to candidates directly. Scores on the exam are usually reported within 3 U.S. business

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days.

Exam results are reported as total scores. Red Hat does not report performance on individual items, nor will it provide additional information upon request.

## Exam outline

To help you prepare, the exam objectives highlight the task areas you can expect to see covered in the exam. Red Hat reserves the right to add, modify, and remove exam objectives. Such changes will be made public in advance.

Candidates for the Red Hat Certificate of Expertise in Camel Development should be able to:

Create and maintain Camel routes

- Use the Java™ language
- Use the CamelContext XML

Exchange messages

- Body
- In/out
- Headers
- Attachments

Consume and produce files

- CSV format
- XML format

Work with databases and the Camel JPA component

Understand transactional routes

Use EIPs

- Content-based routing
- Wire Tap
- Splitter
- Aggregator
- RecipientList

Use Camel components

- File2
- FTP
- JPA2
- JMS
- Direct
- Rest

Use Camel Test

- Mock endpoints
- JUnit 4 integration and CamelTest APIs

Dynamically route messages

- Use conditional routes
- Use data-driven routes

Handle exceptions

- Catch and handle exceptions
- Use the dead-letter queue

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