Cloud-native integration with Red Hat Fuse (AD221)

Category: Software Development & Programming | **Vendor:** Red Hat

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Related Exam: AD221

Course Overview

Cloud-native Integration with Red Hat Fuse (AD221) emphasizes learning architectural patterns and implementing integration services based on Apache Camel and OpenShift. Camel and Red Hat Fuse enable developers to create complex integrations in a simple and maintainable format. You will learn how to use the most common integration components in Camel and develop, test, and deploy integration focused applications on OpenShift. This course is based on Red Hat Fuse 7.10 and OpenShift 4.

About This Course

Cloud-native Integration with Red Hat Fuse (AD221) emphasizes learning architectural patterns and implementing integration services based on Apache Camel and OpenShift. Camel and Red Hat Fuse enable developers to create complex integrations in a simple and maintainable format. You will learn how to use the most common integration components in Camel and develop, test, and deploy integration focused applications on OpenShift. This course is based on Red Hat Fuse 7.10 and OpenShift 4.

Who Should Attend

This course is designed for Java developers focused on implementing integration solutions in an enterprise.

Prerequisites & Entry Requirements

General Prerequisites:

- Experience with Java application development or Red Hat Application Development I: Programming in Java EE (AD183).
- Be proficient in using an IDE such as Visual Studio Code.
- Experience with Maven and version control is recommended, but not required.
- Experience with Red Hat OpenShift or Introduction to OpenShift Applications (DO101) is recommended, but not required.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Deploy Fuse applications on Red Hat OpenShift Container Platform Implement REST APIs with the Camel REST DSL Implement unit tests, error handling, and mocks for Camel routes Implement Enterprise Integration Patterns (EIP) using Camel components Integrate Camel applications with a database Integrate Camel applications with Apache Kafka Integrate Cloud-native services using Camel K Consume REST services using the Camel HTTP component

Detailed Course Outline

1 - Introduction to Red Hat Fuse and Camel

- Describe the architecture of Red Hat Fuse and Camel and how they are used to integrate applications.

2 - Create Camel routes

- Implement Camel routes and develop custom processors

3 - Implement enterprise integration patterns

- Describe the most commonly used enterprise integration patterns and implement them using Camel components.

4 - Create tests for routes and error handling

- Develop reliable routes by creating unit tests and mocks, and by handling errors.

5 - Integrate services using asynchronous messaging

- Integrate microservices using Apache Kafka and ActiveMQ (JMS)

6 - Implement transactions

- Provide data integrity in route processing by implementing transactions.

7 - Build and consume REST services

- Implement and consume REST services with Camel.

8 - Integrate cloud-native services

- Deploy cloud-native microservices based on Camel Routes and Camel K components to an OpenShift cluster

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Additional Course Details

Nexus Humans Cloud-native integration with Red Hat Fuse (AD221) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Cloud-native integration with Red Hat Fuse (AD221) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Cloud-native integration with Red Hat Fuse (AD221)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: Which exam does this course prepare me for?

This course prepares you for the AD221 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 4-day Cloud-native integration with Red Hat Fuse (AD221) course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Cloud-native integration with Red Hat Fuse (AD221) training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Cloud-native integration with Red Hat Fuse (AD221)?

Yes, we provide corporate training, dedicated training, and closed classes for Cloud-native integration with Red Hat Fuse (AD221). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Cloud-native integration with Red Hat Fuse (AD221)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Cloud-native integration with Red Hat Fuse (AD221) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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