# Developing Event-Driven Applications with Apache Kafka and Red Hat AMQ Streams - Red Hat Learning Subscription Course (AD482LS)

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

**Duration:** 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

## Course Information

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| **Delivery Format:** | Instructor Led - Online |
| **Related Exam:** | Developing Event-Driven Applications with Apache Kafka and Red Hat AMQ Streams; Application Services; AD482 |

## Course Overview

Develop, scale, and troubleshoot event-driven microservice applications. Learn to use Kafka and AMQ Streams to design, develop, and test event-driven applications. Event-driven microservices scale globally, store and stream process data, and provide low-latency feedback to customers. This course is for application developers and is based on Red Hat AMQ Streams 1.8 and Red Hat OpenShift Container Platform 4.6. RHLS Course Includes: 365-Day RHLS Subscription - Full year of access starting from your purchase date. Official Red Hat Training Curriculum - Learn directly from Red Hat’s validated, up-to-date course materials. Hands-On Labs (100 Hours per Course) - Build practical, real-world skills through extensive lab time. One Certification Exam + Free Retake - Includes exam readiness resources to help you prepare with confidence. One Virtual, Instructor-Led Class - Attend a live online class through the Red Hat portal (self-enrollment required using your RHID).

## About This Course

Develop, scale, and troubleshoot event-driven microservice applications. Learn to use Kafka and AMQ Streams to design, develop, and test event-driven applications. Event-driven microservices scale globally, store and stream process data, and provide low-latency feedback to customers. This course is for application developers and is based on Red Hat AMQ Streams 1.8 and Red Hat OpenShift Container Platform 4.6. RHLS Course Includes: 365-Day RHLS Subscription - Full year of access starting from your purchase date. Official Red Hat Training Curriculum - Learn directly from Red Hat’s validated, up-to-date course materials. Hands-On Labs (100 Hours per Course) - Build practical, real-world skills through extensive lab time. One Certification Exam + Free Retake - Includes exam readiness resources to help you prepare with confidence. One Virtual, Instructor-Led Class - Attend a live online class through the Red Hat portal (self-enrollment required using your RHID).

## Who Should Attend

Cluster administrators (systems administrators, cloud administrators, cloud engineers) Cluster engineers (systems administrators, cloud administrators, cloud engineers) Site reliability engineers (SREs)

### Prerequisites & Entry Requirements

**General Prerequisites:**

- Experience with microservice application development and design, such as DO378 or equivalent experience.
- OpenShift experience is recommended, but not required.

## Learning Outcomes

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

Describe the basics of Kafka and its architecture. Develop applications with the Kafka Streams API. Integrate applications with Kafka Connect. Capture data change with Debezium. Troubleshoot common application streaming issues.

## Detailed Course Outline

### 1 - Designing Event-Driven Applications

- Describe the principles of event-driven applications.

### 2 - Introducing Kafka and AMQ Streams Concepts

- Build applications with basic read-and-write messaging capabilities. .

### 3 - Building Applications with the Streams API

- Leverage the Streams API to create data streaming applications. .

### 4 - Creating Asynchronous Services with Event Collaboration

- Create and migrate to asynchronous services using the event collaboration pattern. .

### 5 - Integrating Data Systems with Kafka Connect

- Connect data systems and react to data changes using Kafka Connect and Debezium. .

### 6 - Troubleshooting AMQ Streams Applications

- Handle common problems in Kafka and AMQ Streams applications. .

# Frequently Asked Questions

### Q: What delivery options are available for Developing Event-Driven Applications with Apache Kafka and Red Hat AMQ Streams - Red Hat Learning Subscription Course (AD482LS)?

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

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### Q: Which exam does this course prepare me for?

This course prepares you for the Developing Event-Driven Applications with Apache Kafka and Red Hat AMQ Streams; Application Services; AD482 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.

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### Q: How many CPD hours does this course provide?

The 3-day Developing Event-Driven Applications with Apache Kafka and Red Hat AMQ Streams - Red Hat Learning Subscription Course (AD482LS) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

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### Q: What is the duration of the Developing Event-Driven Applications with Apache Kafka and Red Hat AMQ Streams - Red Hat Learning Subscription Course (AD482LS) training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

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### Q: Do you provide corporate training for Developing Event-Driven Applications with Apache Kafka and Red Hat AMQ Streams - Red Hat Learning Subscription Course (AD482LS)?

Yes, we provide corporate training, dedicated training, and closed classes for Developing Event-Driven Applications with Apache Kafka and Red Hat AMQ Streams - Red Hat Learning Subscription Course (AD482LS). 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.

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### Q: Why choose Nexus Human for Developing Event-Driven Applications with Apache Kafka and Red Hat AMQ Streams - Red Hat Learning Subscription Course (AD482LS)?

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

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### Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Developing Event-Driven Applications with Apache Kafka and Red Hat AMQ Streams - Red Hat Learning Subscription Course (AD482LS) 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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