Red Hat Cloud-native Microservices Development with Quarkus (DO378)

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

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Develop microservice-based applications with Quarkus and OpenShift. Many enterprises are looking for a way to take advantage of cloud-native architectures, but many do not know the best approach. Quarkus is an exciting new technology that brings the reliability, familiarity, and maturity of Java Enterprise with a container-ready lightning fast deployment time. Red Hat Cloud-native Microservices Development with Quarkus (DO378) emphasizes learning architectural principles and implementing microservices based on Quarkus and OpenShift. You will build on application development fundamentals and focus on how to develop, monitor, test, and deploy modern microservices applications.. This course is based on OpenShift 4.5 and Quarkus 1.7L

About This Course

Develop microservice-based applications with Quarkus and OpenShift. Many enterprises are looking for a way to take advantage of cloud-native architectures, but many do not know the best approach. Quarkus is an exciting new technology that brings the reliability, familiarity, and maturity of Java Enterprise with a container-ready lightning fast deployment time. Red Hat Cloud-native Microservices Development with Quarkus (DO378) emphasizes learning architectural principles and implementing microservices based on Quarkus and OpenShift. You will build on application development fundamentals and focus on how to develop, monitor, test, and deploy modern microservices applications.. This course is based on OpenShift 4.5 and Quarkus 1.7L

Who Should Attend

This course is designed for application developers.

Learning Outcomes

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

Deploy microservice applications on Red Hat® OpenShift Container Platform. Build a microservice application with Quarkus. Implement unit and integration tests for microservices. Use the config specification to inject data into a microservice. Secure a microservice using OAuth. Build and deploy native Quarkus applications.

Detailed Course Outline

1 - Describe microservice architectures

- Describe components and patterns of microservice-based application architectures.

2 - Implement a microservice with Quarkus

- Describe the specifications in Quarkus, implement a microservice with some of the specifications, and deploy it to an OpenShift cluster.

3 - Build microservice applications with Quarkus

- Build a persistent and configurable distributed quarkus microservices application.

4 - Implement fault tolerance

- Implement fault tolerance in a microservice architecture.

5 - Build and deploy native Quarkus applications

- Describe Quarkus in native mode and describe its deployment on OpenShift Container Platform.

6 - Test microservices

- Implement unit and integration tests for microservices.

7 - Create application health checks

- Create a health check for a microservice.

8 - Secure microservices

- Secure microservice endpoints and communication.

9 - Monitor microservices

- Monitor the operation of a microservice using metrics and distributed tracing.

Additional Course Details

Nexus Humans Red Hat Cloud-native Microservices Development with Quarkus (DO378) 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 Red Hat Cloud-native Microservices Development with Quarkus (DO378) 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 Red Hat Cloud-native Microservices Development with Quarkus (DO378)?

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: How many CPD hours does this course provide?

The 5-day Red Hat Cloud-native Microservices Development with Quarkus (DO378) course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Red Hat Cloud-native Microservices Development with Quarkus (DO378) training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Red Hat Cloud-native Microservices Development with Quarkus (DO378)?

Yes, we provide corporate training, dedicated training, and closed classes for Red Hat Cloud-native Microservices Development with Quarkus (DO378). 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 Red Hat Cloud-native Microservices Development with Quarkus (DO378)?

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 Red Hat Cloud-native Microservices Development with Quarkus (DO378) 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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