Containers, Kubernetes, and Red Hat OpenShift Development II (DO295)

Category: Networking & Security | **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

Related Exam: DO295

Course Overview

Accelerated hands-on training to boost developer productivity powered by Red Hat OpenShift Containers, Kubernetes, and Red Hat OpenShift Development II (DO295) teaches you how to design, build, and deploy containerized software applications to an OpenShift® cluster. Whether you are tasked with writing container-native applications or migrating existing brownfield applications, this course provides hands-on training to boost developer productivity powered by Red Hat OpenShift.

About This Course

Accelerated hands-on training to boost developer productivity powered by Red Hat OpenShift Containers, Kubernetes, and Red Hat OpenShift Development II (DO295) teaches you how to design, build, and deploy containerized software applications to an OpenShift® cluster. Whether you are tasked with writing container-native applications or migrating existing brownfield applications, this course provides hands-on training to boost developer productivity powered by Red Hat OpenShift.

Who Should Attend

Developers who wish to containerize software applications. Administrators who are new to container technology and container orchestration. Architects who are considering using container technologies in software architectures. Site reliability engineers who are considering using Kubernetes and OpenShift.

Learning Outcomes

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

Explore container and OpenShift architecture Create containerized services Manage containers and container images Build custom container images Manage and trigger application builds Customize an existing source-to-image base image Develop an OpenShift template Generate health checks to monitor and improve application reliability

Detailed Course Outline

1 - Introduction to container technology

- Describe how software can run in containers orchestrated by Red Hat OpenShift Container Platform.

2 - Create containerized services

- Provision a server using container technology.

3 - Manage containers

- Manipulate prebuilt container images to create and manage containerized services.

4 - Manage container images

- Manage the life cycle of a container image from creation to deletion.

5 - Create custom container images

- Design and code a Dockerfile to build a custom container image.

6 - Deploy containerized applications on OpenShift

- Deploy single container applications on OpenShift Container Platform.

7 - Troubleshoot containerized applications

- Troubleshoot a containerized application deployed on OpenShift.

8 - Deploy and manage applications on an OpenShift cluster

- Use various application packaging methods to deploy applications to an OpenShift cluster, then manage their resources.

9 - Design containerized applications for OpenShift

- Select a containerization method for an application and create a container to run on an OpenShift cluster.

10 - Publish enterprise container images

- Create an enterprise registry and publish container images to it.

11 - Build applications

- Describe the OpenShift build process, then trigger and manage builds.

12 - Customize source-to-image (S2I) builds

- Customize an existing S2I base image and create a new one.

13 - Create applications from OpenShift templates

- Describe the elements of a template and create a multicontainer application template.

14 - Manage application deployments

- Monitor application health and implement various deployment methods for cloud-native applications.

15 - Perform comprehensive review

- Create and deploy cloudinative applications on OpenShift.

Frequently Asked Questions

Q: What delivery options are available for Containers, Kubernetes, and Red Hat OpenShift Development II (DO295)?

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 DO295 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 5-day Containers, Kubernetes, and Red Hat OpenShift Development II (DO295) 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 Containers, Kubernetes, and Red Hat OpenShift Development II (DO295) 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 Containers, Kubernetes, and Red Hat OpenShift Development II (DO295)?

Yes, we provide corporate training, dedicated training, and closed classes for Containers, Kubernetes, and Red Hat OpenShift Development II (DO295). 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 Containers, Kubernetes, and Red Hat OpenShift Development II (DO295)?

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 Containers, Kubernetes, and Red Hat OpenShift Development II (DO295) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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