Red Hat OpenShift Administration I: Containers & Kubernetes (DO180)

Category: AI, Data & Analytics | **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: DO180

Course Overview

This course helps you build core knowledge in managing containers through hands-on experience with containers, Kubernetes, and the Red Hat® OpenShift® Container Platform. These skills are needed for multiple roles, including developers, administrators, and site reliability engineers.

About This Course

This course helps you build core knowledge in managing containers through hands-on experience with containers, Kubernetes, and the Red Hat® OpenShift® Container Platform. These skills are needed for multiple roles, including developers, administrators, and site reliability engineers.

Who Should Attend

This course is intended for Developers who wish to containerize software applications, Administrators who are new to container technology and container orchestration, or Architects who are considering using container technologies in software architectures. Be able to use a Linux terminal session, issue operating system commands, and be familiar with shell scripting Have experience with web application architectures and their corresponding technologies. Being a Red Hat Certified System Administrator (RHCSA®) is recommended, but not required.

Learning Outcomes

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

Upon completion student should be able to: - Create containerized services using Docker - Manage containers and container images - Create custom container images - Deploy containerized applications on OpenShift Deploy multi-container applications

Detailed Course Outline

1 - COURSE INTRODUCTION

- Introduce and review the course.

2 - GET STARTED WITH CONTAINER TECHNOLOGY

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

3 - CREATE CONTAINERIZED SERVICES

- Provision a server using container technology.

4 - MANAGE CONTAINERS

- Manipulate pre-built container images to create and manage containerized services.

5 - MANAGE CONTAINER IMAGES

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

6 - CREATE CUSTOM CONTAINER IMAGES

- Design and code a Docker file to build a custom container image.

7 - DEPLOY CONTAINERIZED APPLICATIONS ON RED HAT OPENSHIFT

- Deploy single container applications on Red Hat OpenShift Container Platform.

8 - DEPLOY MULTI-CONTAINER APPLICATIONS

- Deploy applications that are containerized using multiple container images.

9 - TROUBLESHOOT CONTAINERIZED APPLICATIONS

- Troubleshoot a containerized application deployed on Red Hat OpenShift.

10 - COMPREHENSIVE REVIEW OF INTRODUCTION TO CONTAINER, KUBERNETES, AND RED HAT OPENSHIFT

- Demonstrate how to containerize a software application, test it with Docker, and deploy it on a Red Hat OpenShift cluster.

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1 - Introduction to Kubernetes and OpenShift

- Identify the main Kubernetes cluster services and OpenShift platform services, and monitor them from the web console.

2 - Kubernetes and OpenShift Command-Line Interfaces and APIs

- Access an OpenShift cluster from the command line, and query its Kubernetes API resources to assess the health of a cluster.

3 - Run Applications as Containers and Pods

- Run and troubleshoot containerized applications as unmanaged Kubernetes pods.

4 - Deploy Managed and Networked Applications on Kubernetes

- Deploy applications and expose them to network access from inside and outside a Kubernetes cluster.

5 - Manage Storage for Application Configuration and Data

- Externalize application configurations in Kubernetes resources, and provision storage volumes for persistent data files.

6 - Configure Applications for Reliability

- Configure applications to work with Kubernetes for high availability and resilience.

7 - Manage Application Updates

- Manage reproducible application updates and rollbacks of code and configurations.

Upcoming Schedule

Available training dates for Red Hat OpenShift Administration I: Containers & Kubernetes (DO180):

Start Date	End Date	Location	Delivery	Price
30 Nov 2026	03 Dec 2026	22-24 Strand Street Great	Virtual	€2,900.00
15 Feb 2027	18 Feb 2027	22-24 Strand Street Great	Virtual	€2,900.00
14 Jun 2027	17 Jun 2027	22-24 Strand Street Great	Virtual	€2,900.00
20 Sep 2027	23 Sep 2027	22-24 Strand Street Great	Virtual	€2,900.00
29 Nov 2027	02 Dec 2027	22-24 Strand Street Great	Virtual	€2,900.00

Additional Course Details

Nexus Humans Red Hat OpenShift Administration I: Containers & Kubernetes (DO180) 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 OpenShift Administration I: Containers & Kubernetes (DO180) 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 OpenShift Administration I: Containers & Kubernetes (DO180)?

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 DO180 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 Red Hat OpenShift Administration I: Containers & Kubernetes (DO180) 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 OpenShift Administration I: Containers & Kubernetes (DO180) 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 OpenShift Administration I: Containers & Kubernetes (DO180)?

Yes, we provide corporate training, dedicated training, and closed classes for Red Hat OpenShift Administration I: Containers & Kubernetes (DO180). 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 OpenShift Administration I: Containers & Kubernetes (DO180)?

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 OpenShift Administration I: Containers & Kubernetes (DO180) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

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