Red Hat DevOps Pipelines and Processes: GI/CD with Jenkins, Git, and Test Driven Development (TDD) (DO400)

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
Related Exam:	DO400

Course Overview

DevOps practices have enabled organizations to undergo a digital transformation, moving from a monolithic waterfall approach to a rapidly deploying cloud-based agile process. This transformation requires a team of developers trained to use tools that enable them to spend more time coding and testing and less time troubleshooting. Red Hat DevOps Pipelines and Processes: CI/CD with Jenkins, Git, and Test-Driven Development (TDD) is a practical introduction to DevOps for developers that teaches students the necessary skills and technologies for automated building and deploying of cloud-native applications.

About This Course

DevOps practices have enabled organizations to undergo a digital transformation, moving from a monolithic waterfall approach to a rapidly deploying cloud-based agile process. This transformation requires a team of developers trained to use tools that enable them to spend more time coding and testing and less time troubleshooting. Red Hat DevOps Pipelines and Processes: CI/CD with Jenkins, Git, and Test-Driven Development (TDD) is a practical introduction to DevOps for developers that teaches students the necessary skills and technologies for automated building and deploying of cloud-native applications.

Who Should Attend

This course is designed for application developers.

Prerequisites & Entry Requirements

General Prerequisites:

Experience with application development in Java, Node.js, Python, or others is required. Experience with application development or Red Hat Application Development I: Programming in Java EE (AD183) is recommended, but not required. Proficiency in using an IDE such as Red Hat® Developer Studio or VSCode Introduction to OpenShift Applications (DO101) is recommended, but not required.

Learning Outcomes

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

Version control with Git Build and execute Jenkins pipelines Release strategies Build applications with Test Driven Development Security scanning and code analysis of applications Monitor applications and pipelines Consume and troubleshoot pipelines

Detailed Course Outline

1 - Introduction to continuous integration and continuous deployment (CI/CD)

- Describe the principles of DevOps and the role of Jenkins.

2 - Integrate source code with version control

- Manage source code changes with Git version control.

3 - Test applications

- Describe the foundational principles behind comprehensive application testing and implement unit, integration, and functional testing.

4 - Build applications with test-driven development

- Implement and build application features with TDD.

5 - Author pipelines

- Create basic pipelines to run Jenkins jobs.

6 - Deploy applications with pipelines

- Safely and automatically deploy applications to Red Hat OpenShift Container Platform.

7 - Implement pipeline security and monitoring

- Manage the security and monitor the performance of pipelines.

8 - Consume pipelines

- Work with (or “Use”) and troubleshoot CI/CD pipelines for automated deployment and automated testing.

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Additional Course Details

Nexus Humans Red Hat DevOps Pipelines and Processes: GI/CD with Jenkins, Git, and Test Driven Development (TDD) (DO400) 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 DevOps Pipelines and Processes: GI/CD with Jenkins, Git, and Test Driven Development (TDD) (DO400) 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 DevOps Pipelines and Processes: GI/CD with Jenkins, Git, and Test Driven Development (TDD) (DO400)?

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 DO400 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 DevOps Pipelines and Processes: GI/CD with Jenkins, Git, and Test Driven Development (TDD) (DO400) 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 DevOps Pipelines and Processes: GI/CD with Jenkins, Git, and Test Driven Development (TDD) (DO400) 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 DevOps Pipelines and Processes: GI/CD with Jenkins, Git, and Test Driven Development (TDD) (DO400)?

Yes, we provide corporate training, dedicated training, and closed classes for Red Hat DevOps Pipelines and Processes: GI/CD with Jenkins, Git, and Test Driven Development (TDD) (DO400). 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 DevOps Pipelines and Processes: GI/CD with Jenkins, Git, and Test Driven Development (TDD) (DO400)?

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 DevOps Pipelines and Processes: GI/CD with Jenkins, Git, and Test Driven Development (TDD) (DO400) 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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