



RED HAT TRAINING

Red Hat Devops Pipelines Processes Jenkins Git Course

Master Red Hat DevOps pipelines, Jenkins, and Git for efficient software delivery. Develop automation skills for continuous integration and deployment.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This intermediate-level Red Hat DevOps Pipelines Processes Jenkins Git course is meticulously designed to equip IT professionals with the essential skills to automate application delivery and streamline development workflows using industry-leading tools. Participants will dive deep into the core principles of DevOps, learning how to implement continuous integration, continuous delivery (CI/CD) pipelines, and foster a culture of collaboration and efficiency. The curriculum emphasizes practical application, guiding you through setting up robust automated pipelines with Jenkins, managing source code effectively with Git, and integrating these tools within a Red Hat ecosystem to achieve rapid, reliable software deployments.

Upon completion, you will possess a solid understanding of how to design, build, and maintain automated software delivery pipelines, significantly reducing time-to-market and improving application quality. This course leverages Red Hat's expertise in enterprise solutions, providing a vendor-specific perspective that is highly valuable in today's IT landscape. You'll gain hands-on experience in orchestrating complex build, test, and deployment stages, transforming manual processes into agile, repeatable operations. This foundational knowledge is crucial for anyone looking to advance their career in modern software development and operations, enabling you to contribute to a more efficient and responsive organizational IT infrastructure.

Duration	2 hours
Level	Intermediate
Vendor	Red Hat

COURSE CURRICULUM

01 Module 1: Introduction to DevOps and Version Control with Git

- Understanding DevOps Principles and Culture
- Introduction to CI/CD Concepts
- Git Fundamentals: Repository Setup, Commits, Branches
- Collaborative Workflows with Git: Merging and Rebasing
- Resolving Merge Conflicts and Best Practices

02 Module 2: Jenkins Basics and Pipeline Fundamentals

- Installing and Configuring Jenkins on Red Hat
- Jenkins User Interface and Administration
- Creating Freestyle Projects in Jenkins
- Introduction to Jenkins Pipelines (Declarative vs. Scripted)
- Building Simple CI Pipelines with Jenkinsfile

03 Module 3: Advanced Jenkins Pipelines and Integrations

- Implementing Multi-stage Pipelines
- Integrating Git with Jenkins for SCM Polling
- Automating Builds and Tests within Jenkins Pipelines
- Using Jenkins Shared Libraries for Reusability
- Notifications and Reporting in Jenkins Pipelines

04 Module 4: Containerization and Deployment Strategies

- Introduction to Containerization with Docker/Podman

- Building Docker Images with Jenkins
- Basic Deployment Strategies (Blue/Green, Canary)
- Automating Deployments to Container Platforms (e.g., OpenShift/Kubernetes concepts)
- Implementing Rollbacks in CI/CD Pipelines

05 Module 5: Pipeline Orchestration and Best Practices

- Securing Jenkins and Pipelines
- Pipeline as Code Best Practices
- Monitoring and Troubleshooting Pipelines
- Continuous Feedback Loops and Metrics
- Scalability and High Availability for Jenkins

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **DevOps Engineer specializing in CI/CD Pipeline Automation**
- > **Release Manager focusing on automated deployment strategies**
- > **Cloud Automation Specialist leveraging Red Hat technologies**

FREQUENTLY ASKED QUESTIONS

Q: What are the specific prerequisites for this Red Hat DevOps Pipelines Processes Jenkins Git course?

Participants should have a foundational understanding of Linux command-line operations, basic knowledge of software development concepts, and familiarity with at least one programming or scripting language. While not strictly required, prior exposure to version control systems like Git would be beneficial.

Q: How will the skills learned in this course directly apply to real-world Red Hat enterprise environments?

This course focuses on implementing CI/CD pipelines using Jenkins and Git within a Red Hat context. You'll learn to automate application builds, tests, and deployments, which are critical for accelerating software delivery on Red Hat platforms like OpenShift and RHEL. The practical skills gained in pipeline orchestration, Git workflows, and Jenkins administration are directly transferable to enhancing agility and reliability in Red Hat-centric enterprise IT operations.

Q: Beyond Jenkins and Git, what other Red Hat-specific technologies or integrations will be touched upon in this course?

While the primary focus is on Jenkins and Git for pipeline automation, the course will introduce concepts related to deploying applications to container platforms, specifically touching upon how these pipelines integrate with Kubernetes-based environments like Red Hat OpenShift. We'll explore how to build container images within Jenkins and prepare applications for deployment in a Red Hat ecosystem, providing a holistic view of the automated delivery chain.

ABOUT COMPUTER PRIDE

**computerpride*****East Africa's Premier IT Training Center***

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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