

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

**Duration: 4 Days**

## Course Description:

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.

## Intended Audience:

- This course is designed for application developers.

## Course Outlines:

### Introduction to continuous integration and continuous deployment (CI/CD)

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

### Integrate source code with version control

- Manage source code changes with Git version control.

### Test applications

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

### Build applications with test-driven development

- Implement and build application features with TDD.

### Author pipelines

- Create basic pipelines to run Jenkins jobs.

### Deploy applications with pipelines

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

### Implement pipeline security and monitoring

- Manage the security and monitor the performance of pipelines.

### Consume pipelines

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

**REGISTER NOW!**

training@trends.com.ph  
(+632) 8863-2123  
www.trendssacademy.com.ph