



D0400 - Red Hat DevOps Pipelines and Processes: CI/CD with Jenkins, Git, and Test Driven Development

- **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.