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

**Course outline**

**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.