

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

ID DO400 Preis CHF 3'780.– (exkl. MwSt.) Dauer 4 Tage

Zielgruppe

This course is designed for application developers.

Voraussetzungen

- 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.

Kursziele

Impact on the organization

DevOps with Jenkins, Test-Driven Development, and Git version control, improves application time-to-market and code quality. This approach makes applications more resilient and enables organizations to quickly implement new features and respond to a quickly changing market.

Impact on the individual

You will be able to use the concepts in this course to simplify and more efficiently integrate your application code, build reliable code with TDD, and use automated pipelines to simplify testing. You will learn how to build pipelines, design applications with a “test first” approach, and integrate application code with Git. This course is intended to illustrate the benefits of DevOps and the tools that support its implementation.

Recommended next exam or course

- [Red Hat OpenShift Administration I: Operating a Production Cluster \(DO180\)](#)
- [Red Hat OpenShift Developer II: Building and Deploying](#)

[Cloud-native Applications \(DO288\)](#)

Kursinhalt

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.

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Weltweite Trainingscenter



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