

Beginning Jenkins

Duration: 2 Days Course Code: LO035423 Delivery Method: Virtual Learning

Overview:

This course complies with instructional designing principles for all the 6 lessons. This will ensure that you repeat and reinforce your gained knowledge at every step. Each and every minute spent during this 2-day course will incrementally take you to a next level.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

This course is for course aimed at new developers and operations personnel looking to setup Continuous Integration and Delivery pipelines specifically with Jenkins. You should have basic programming experience and working knowledge of test driven development, using the bash command line interface, managing virtual machines with tools like Vagrant and Virtualbox and basic knowledge of Docker images and containers.

Objectives:

- If you are interested in gaining a good grasp of Jenkins in a systematic and hands-on way by working through a real-world project, then this course is for you.
 - The course will provide enough knowledge of the following:
 - Illustrate continuous integration and continuous delivery concepts
 - Analyse how to install and setup Jenkins on Windows
 - Administer and secure Jenkins
 - Set up projects on Jenkins
 - Build continuous delivery pipelines with Jenkins
 - Identify how to setup distributed builds and scale Jenkins
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Prerequisites:

Hardware:

For successful completion of this course, students will require computer systems with the following:

- Processor: Intel Core i5 or equivalent
- Memory: Minimum 4 GB RAM
- Hard Disk: Minimum 35 GB
- Internet connection

Software:

- Operating System: Windows (7 SP1 64-bit or higher)
 - Browser: Google Chrome or Mozilla Firefox (Latest updates installed)
 - Docker
 - Git
 - Python
 - Blue Ocean
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Content:

LESSON 1- Installing and Setting up Jenkins

- Continuous Delivery
- Installing Jenkins
- The Jenkins Dashboard
- User Management

LESSON 2 Administering Jenkins

- Plugin Management
- Updating ; Upgrading Jenkins
- Configuring Jenkins for Production
- Creating a Form with a Select Element

LESSON 3- Jenkins Views and Setting up Freestyle Projects

- Setting up a Freestyle Project
- Setting up a View to Manage our Projects

LESSON 4- Parameterized Projects and Upstream/Downstream Projects

- Configuring Parameters for our Projects
- Creating ; Accessing Build Parameters
- Build Triggers

LESSON 5- Multibranch and Declarative Jenkins Pipelines

- The CI Workflow
- The Jenkinsfile
- Creating Multi-Branch Pipelines

LESSON 6- Distributed Builds on Jenkins

- Setting up Our Slaves
 - Securely Connecting To Our Slaves
 - Configuring Tasks To Run On Our Slaves
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Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK