




Jenkins

	Level	Duration
	Introduction	1 days

Course Description

- The main objective of this course is to get familiar with Jenkins
- The course will teach participants how to use Jenkins for their daily development / Devops/ qa needs
- Learn how to automate build and deployment processes using Jenkins

Audience and prerequisites

- This course will be most useful for developers who want to automate the
- Developers
- DevOps
- QA

Main Goals

- Learn Jenkins fundamentals
- Learn how to automate build and deployment processes using Jenkins
- Learn how to use **Shared Library**
- Create and configure a Jenkins job.

Content

Session	Content
Introduction	
	◆ History
	◆ What is Jenkins
	◆ What are CI/CD / Pipelines
	◆ CI (Continues integration)
	◆ CD (Continues delivery)
	◆ CD (Continues deployment)
	◆ Installing Jenkins
	◆ Standalone
	◆ Docker
	◆ Blue Ocean
	◆ Jenkins Architecture
	◆ Master / Worker
	◆ Nodes
	◆ Agents
	◆ Workspaces
	◆ Managing Jenkins
	◆ Dashboards
Managing Jenkins	
	◆ Configuration
	◆ Users management
	◆ User roles
	◆ Project roles
	◆ Security
Jobs	
	◆ What is Job
	◆ Job phases
	◆ Build
	◆ Jenkins Build Pipeline
	◆ Parametrize builds

	◆ Connect job to Source control
	◆ Build phases / Build triggers
	◆ Schedule builds
	◆ Parallel builds
	◆ Code quality
Pipeline as code	
	◆ Blue Ocean
	◆ Jenkins file
	◆ Jenkins CASC
	◆ Multi Branch pipelines
	◆ Importance of Jenkins Pipeline
	◆ Pipeline Concepts
	◆ Pipeline Syntax
	◆ Running Pipelines
	◆ Pipeline Plugins
	◆ Jenkins and Docker (Build docker containers)
	◆ Containers
	◆ Docker hub
	◆ Docker file
	◆ Distributed builds
Jenkins CASC	

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