

# Introduction to Jenkins (LFS167)

**Course Duration : 8 Hours**

**Course code : LFS167**

## 1. Course Overview

The **Introduction to Jenkins (LFS167)** course introduces learners to Jenkins, a popular open-source automation server used for Continuous Integration and Continuous Delivery (CI/CD). This course explains how Jenkins helps automate building, testing, and deploying applications.

## 2. What you'll learn?

- Basics of Jenkins and CI/CD
- Jenkins architecture and components
- Creating and managing Jenkins jobs
- Jenkins pipelines basics
- Integrating Jenkins with tools

## 3. Target Audience

- DevOps engineers
- Software developers
- IT operations professionals
- System administrators
- CI/CD beginners

## 4. Pre-Requisites

- Basic understanding of software development
- Familiarity with Linux basics
- Knowledge of Git or version control is helpful

## 5. Course Content (Modules)

### **Module 1: Introduction to CI/CD and Jenkins**

- CI/CD concepts
- Jenkins overview

### **Module 2: Jenkins Architecture**

- Jenkins master and agents
- Plugins and integrations

### **Module 3: Creating Jenkins Jobs**

- Freestyle and pipeline jobs
- Job configuration

### **Module 4: Jenkins Pipelines**

- Declarative and scripted pipelines
- Pipeline stages

### **Module 5: Integrations and Best Practices**

- Git integration
- Jenkins security and best practices