DevOpsSchool

Course curriculum · November 2026

LEVEL 03 OF 04 · INTERMEDIATE

# Jenkins Intermediate Training

Add Linux and Windows agents, write declarative pipelines, integrate Jenkins with build, test and cloud tools, publish reports and secure access.

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|---|---|---|
| LIVE ONLINE<br>**Max 8-10 hours** | CORPORATE (DAY-WISE)<br>**3 days · Days 1-3** | SELF-PACED VIDEO<br>**1-year LMS access** |
| BATCH SIZE<br>**Max 10 learners** | NEXT BATCHES<br>**1st of every month · weekends: first Saturday** | CERTIFICATE<br>**Verifiable certificate of completion** |

| Foundation | Essential | Intermediate | Advanced |
|---|---|---|---|
| 1 day · Included | 2 days · Included | 3 days · This curriculum | 5 days · Next step |

## INSIDE THIS CURRICULUM


| | |
|---|---|
| What you will achieve | Outcomes and level focus |
| Who should attend | Audience and prerequisites |
| Agenda | 40 topics · Foundation to Intermediate |
| Hands-on labs | 3 labs |
| Formats and fees | Live, 1:1, self-paced, corporate |
| Trainer and reviews | Rajesh Kumar |
| Enrolment | Batches, payment, contacts |


## WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

**Course page:** www.devopsschool.com/courses/jenkins/jenkins-intermediate-training.html
**Talk to us:** WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

OUTCOMES

# What you will achieve

By the end of the Jenkins course path, you will be able to:

1

### Automate builds with Jenkins

Install Jenkins and create freestyle and pipeline jobs that build, test and package code on every change.

2

### Integrate the delivery toolchain

Connect Jenkins to Git, build tools, test tools, quality gates, Jira, Docker and cloud platforms.

3

### Run Jenkins at scale

Secure, back up, upgrade and scale Jenkins for multiple teams with code-defined configuration.

WHAT THE INTERMEDIATE LEVEL ADDS

### Agents, pipelines, integrations, reports and security

**Hands-on:** Build a declarative CI pipeline. Write a Jenkinsfile that builds on a Linux agent, runs JUnit and Selenium tests, publishes JaCoCo and SonarQube reports and builds a Docker image.

WHO SHOULD ATTEND

- Regular Jenkins users who want to automate, integrate and manage it at a deeper level.
- Specialists who support Jenkins for colleagues or customers.
- Leads preparing Jenkins for wider use across projects.

BEFORE YOU START

- The Essential level, or equivalent hands-on experience.
- You can already: Configure freestyle jobs for Java, .NET and C++ builds, schedule and chain them, manage plugins and credentials, and notify your team.
- Basic computer skills and a laptop with a stable internet connection for the live sessions and labs.
- This curriculum includes every earlier level, so it is complete on its own.

AGENDA · FOUNDATION TO INTERMEDIATE

# Jenkins Intermediate Training agenda

40 topics. Each level builds on the one before it, so this curriculum lists every earlier level in full. Days are for corporate (day-wise) delivery; live online batches cover the same agenda in max 8-10 hours.

## DAY 1 — Foundation: CI concepts, Jenkins installation and first job

Included from Foundation

1. Let's understand continuous integration: what CI is, its benefits, and continuous delivery vs continuous deployment
2. Continuous integration tools: Jenkins vs TeamCity vs Bamboo, and where GitHub Actions and GitLab CI fit
3. What is Jenkins: controller and agent architecture, jobs, builds, workspaces, executors and plugins
4. Jenkins installation prerequisites: supported Java 17 or 21, memory, disk, ports and firewall rules
5. Installing Jenkins on Linux: using yum or dnf on RHEL-family systems and using apt on Ubuntu and Debian
6. Installing Jenkins on Windows and Tomcat: the MSI installer, and deploying jenkins.war on Tomcat
7. Installing as a service: systemd unit or Windows service, starting and stopping Jenkins, initial admin password
8. Jenkins in a container: running the official image with a persistent jenkins_home volume
9. Jenkins home directory: jenkins_home layout, jobs, workspace, plugins and config.xml files
10. Jenkins dashboard tour: setup wizard, suggested plugins, first admin user, navigation and build history
11. Understand the freestyle project: what it is and when to choose freestyle or pipeline jobs
12. Creating a simple job: run a shell or batch step, read console output and rebuild from build history

## DAY 2 — Essential: Freestyle jobs, triggers, plugins and notifications

Included from Essential

13. Freestyle general tab: description, discard old builds, parameters, restricting where the project runs
14. Freestyle source code management tab: Git repository URL, credentials and branches to build
15. Jobs scheduling: manual builds, build periodically on a fixed cron schedule, poll SCM, trigger builds remotely by script
16. Build trigger based on push to Git: GitHub and GitLab webhooks compared with SCM polling
17. Freestyle build environment, build steps and post-build actions: workspace cleanup, timestamps, archiving artifacts
18. Manage Jenkins: system configuration and global tool configuration for JDK, Maven, Ant, Gradle and Git
19. My views, people and credentials: list views, the user directory, credential types and scopes
20. Java build jobs: simple Java applications built with Maven, Ant and Groovy
21. Windows and native build jobs: simple .NET application with MSBuild and C++ application with a batch build
22. Useful job configuration: parameterised jobs, executing concurrent builds and job executors
23. Job chaining: build other projects, build after other projects are built, throttle builds
24. Jenkins plugins: installing, configuring and updating plugins, plugin documentation on plugins.jenkins.io
25. Notification and feedback: email notification, advanced Email Extension notifications and Slack notification
26. CI build pipeline and dashboard: visualising upstream and downstream jobs with pipeline views and dashboards

## DAY 3 — Intermediate: Agents, pipelines, integrations, reports and security

**New at this level**

27. Jenkins node management: adding a Linux node over SSH and Windows nodes as inbound agents
28. Nodes management using Jenkins: labels, executors, usage modes, tool locations and node monitoring
29. Pipeline as code: Jenkinsfile with declarative syntax, stages, steps, agents, environment, when and post

30. Groovy for pipelines: objects, properties and methods, primitive and wrapper types, classes, constructors, inheritance
31. Groovy classes in shared code: getters and setters, static members and the Jenkins script console
32. Integration with source and build tools: Git, Maven, Gradle and JUnit
33. Integration with quality and test tools: SonarQube, JaCoCo, Coverity and Selenium
34. Integration with infrastructure tools: Docker, AWS, Terraform, Packer, Ansible, Chef and Puppet
35. Jenkins integration with Jira: linking builds and commits to issues and updating issues from pipelines
36. Reports in Jenkins: JUnit report and test results trends, Cucumber reports and Selenium reports
37. Quality reports: SonarQube reports and quality gates, JaCoCo coverage reports and Coverity reports
38. Security in Jenkins: authentication with the user database, LDAP or SSO, authorization with matrix-based security
39. Managing folders and subfolders: organising jobs with folder-level credentials and permissions
40. Using Jenkins plugins best practices: top useful plugins, keeping the set minimal, updates and security advisories

PRACTICE

## Hands-on labs

You build these yourself during the course, guided by the trainer.

FOUNDATION

### Install Jenkins and run a job

Install Jenkins as a service on Ubuntu or Windows, complete the setup wizard and create a freestyle job that runs a script and keeps its build history.

ESSENTIAL

### Build and chain freestyle jobs

Create parameterised freestyle jobs that build a Java Maven app on every Git push, trigger a downstream test job and send email and Slack notifications.

INTERMEDIATE

### Build a declarative CI pipeline

Write a Jenkinsfile that builds on a Linux agent, runs JUnit and Selenium tests, publishes JaCoCo and SonarQube reports and builds a Docker image.

HOW YOU CAN LEARN

## Formats and fees

The same agenda in four formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

| FORMAT | DURATION | WHAT YOU GET | FEE |
|---|---|---|---|
| **Live & interactive (online)** | Max 8-10 hours | Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month. | **INR 34,999** |
| **1:1 live training (online)** | Max 8-10 hours, one-to-one | The same agenda, taught one-to-one by the trainer. Starts immediately, without waiting for the next batch; sessions planned around your working hours, at your pace. | **INR 99,999** |
| **Self-paced video** | 1-year LMS access | All four Jenkins levels, plus 20+ more courses and 50+ tools, at your own pace. | **INR 833/month** billed yearly at INR 9,996 |
| **Corporate (day-wise)** | 3 days for this level | A private batch for your team, on demand. Foundation 1 day, Essential 2, Intermediate 3, Advanced 5 (cumulative). | **Quote on request** |

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on labs and assignments at every level. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

## Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

| | |
|---|---|
| **20** years in industry | **200+** corporate trainings |
| **10,000+** engineers mentored | **70+** organisations coached |

REVIEWS

## What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR JENKINS TRAINING

## Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. 1:1 training can start immediately; corporate batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All levels of this course: www.devopsschool.com/courses/jenkins/


ENROL OR RESERVE A SEAT
**Jenkins Intermediate Training**

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**Next step after this level: Jenkins Advanced Training** - Administer, automate and scale Jenkins for many teams with multibranch pipelines, shared libraries, configuration as code and hardened security.