DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Continuous Integration Delivery Advanced Training

Design a full-featured CI/CD environment, define and report metrics and roll out CI and CD across an organization.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **5 days · Days 1-5**	SELF-PACED VIDEO **1-year LMS access**
BATCH SIZE **Max 10 learners**	NEXT BATCHES **1st of every month · weekends: first Saturday**	CERTIFICATE **Verifiable certificate of completion**

Foundation	Essential	Intermediate	Advanced
1 day · Included	2 days · Included	3 days · Included	5 days · This curriculum

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	40 topics · Foundation to Advanced
Hands-on labs	4 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/continuous-integration/continuous-integration-delivery-advance-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 Continuous Integration Delivery course path, you will be able to:

1

Practice continuous integration

Run automated, self-testing builds with fast feedback on every commit.

2

Deliver continuously

Package, migrate and deploy software automatically through a delivery pipeline.

3

Lead CI/CD adoption

Measure, secure, scale and roll out CI/CD practices across an organization.

WHAT THE ADVANCED LEVEL ADDS

Full-featured CI, metrics and organizational rollout

Hands-on: CI/CD rollout capstone. Design a reference CI/CD pipeline and a rollout plan for an organization, with metrics, security checks and an improvement cycle.

WHO SHOULD ATTEND

- Experienced Continuous Integration Delivery practitioners responsible for quality, security and scale.
- Senior engineers, architects and leads who design and troubleshoot Continuous Integration Delivery solutions.
- Teams making Continuous Integration Delivery an organisation-wide standard.

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Extend CI into continuous delivery with database integration, packaging, deployment automation and release strategies.
- 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 ADVANCED

Continuous Integration Delivery Advanced 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, CI environment and first build

Included from Foundation

1. Continuous integration concept and process: what CI is, why CI and the CI philosophy
2. Benefits: advantages of CI in software development, CI as an enabler and the problems DevOps solves
3. CI versus traditional methodologies: understanding CI/CD and the delivery process
4. Minimum requirements: version control, automated build, self-testing build and the check-in dance
5. Setting up a CI environment: CI tools such as Jenkins, GitHub Actions, GitLab CI and Azure Pipelines
6. Automated builds and committing code: small commits and fast feedback
7. Hello, Continuous Integration: recommended solution layout and building on the CI server
8. Build failure notifications: receiving and responding to broken builds
9. CI do's and don'ts: habits that keep the main branch green
10. First CI pipeline: build and test a project on every push

DAY 2 — Essential: Build scripts, automated tests and quality

Included from Essential

11. Build scripts: why a build script, scripting everything and running builds from the command line
12. Build tool practice: MSBuild targets, default targets and debug versus release; Maven and Gradle equivalents
13. Script design: eliminating duplication, custom tasks, non-fatal failures and multiple target dependencies
14. Continuous testing: automated unit, integration, system and functional tests; writing tests for defects
15. Test runners: integrating NUnit, JUnit or pytest and failing the build with exit codes
16. Test reports: running tests on the build server and displaying test reports
17. Coverage: the 100% coverage myth, integrating coverage and failing builds on low coverage
18. Continuous quality: code inspection versus testing, automated code analysis tools and .NET analyzers
19. Pipeline as code: Jenkinsfile and YAML pipelines
20. Branching for CI: trunk-based development, short-lived branches and pull request builds

DAY 3 — Intermediate: Continuous delivery, packaging and deployment

Included from Intermediate

21. Continuous database integration: automated database integration and migrations in CI
22. Continuous deployment philosophy: packaging and deployment options and server preparation
23. Packaging: adding packaging to the build script, from the command line and on the build server
24. Deployment automation: installing Microsoft Web Deploy and adding deployment to the build script
25. Deployment pipeline: integrating deployment into the pipeline and demonstrating continuous deployment
26. Release and labeling strategies: versioning, tags and artifact repositories
27. Environments and approvals: promotion from test to staging to production
28. Containerized CI/CD: Docker builds, registries and Kubernetes deployments
29. Secrets in CI/CD: credential stores and avoiding secrets in logs
30. Troubleshooting pipelines: flaky tests, caching and slow builds

DAYS 4-5 **Advanced: Full-featured CI, metrics and organizational rollout** New at this level

31. Full-featured CI environment: components and requirements
32. Organizational impact: buy-in, developer philosophy and DevOps organization and culture
33. Rollout: introducing CI within your organization step by step
34. Metrics: defining proper metrics, measuring and reporting, and a change strategy to reach them
35. Continuous improvement: the feedback loop, the metrics loop and the improvement cycle
36. Best practices: best-of-breed tools, practices for quality software and for CI
37. Scaling CI: distributed agents, build caching and monorepo pipelines
38. Security in CI/CD: SAST, SCA, secret scanning and signed artifacts
39. Modern delivery: GitOps and progressive delivery
40. Capstone: CI/CD rollout plan and reference pipeline for a product team

PRACTICE

Hands-on labs

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

FOUNDATION **Set up a first CI pipeline**
Configure a CI server to build and test a project on every commit and notify the team when the build breaks.

ESSENTIAL **Add tests and quality gates**
Extend a build script to run unit tests, coverage and static analysis on the CI server and fail the build below agreed thresholds.

INTERMEDIATE **Build a delivery pipeline**
Turn a CI build into a delivery pipeline that packages the app, migrates the database and deploys automatically to a staging environment.

ADVANCED **CI/CD rollout capstone**
Design a reference CI/CD pipeline and a rollout plan for an organization, with metrics, security checks and an improvement cycle.

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 Continuous Integration Delivery levels, plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate (day-wise)	5 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 CONTINUOUS INTEGRATION DELIVERY 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/continuous-integration/

ENROL OR RESERVE A SEAT
Continuous Integration Delivery Advanced Training

WHATSAPP · INDIA
+91 99057 40781

WHATSAPP · USA
+1 (469) 756-6329

EMAIL
contact@DevOpsSchool.com