DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Circleci Advanced Training

Run CircleCI for many teams with policy-governed config, cost control, supply chain security and self-hosted CircleCI server.

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	41 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/circleci/circleci-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 Circleci course path, you will be able to:

1

Build CircleCI pipelines

Write version 2.1 configs with jobs, workflows, caching, workspaces and orbs for real projects.

2

Deploy securely and fast

Ship to cloud and Kubernetes with OIDC, approvals, runners and test splitting.

3

Govern CI at scale

Apply config policies, cost control, supply chain checks and migration plans across teams.

WHAT THE ADVANCED LEVEL ADDS

Scale, governance, server and migration

Hands-on: Governed CircleCI platform capstone. Design a shared orb, config policies and a canary release pipeline for three services, with cost and reliability dashboards.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Deploy to cloud and Kubernetes with OIDC, use dynamic config for monorepos, run self-hosted runners and author private orbs.
- 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

Circleci Advanced Training agenda

41 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: CircleCI concepts, config.yml and first pipeline

Included from Foundation

1. CI/CD concepts: where CircleCI fits, CircleCI cloud versus self-hosted CircleCI server
2. Getting started: signing up and connecting GitHub, GitLab or Bitbucket projects
3. config.yml basics: version 2.1, jobs, steps and workflows
4. Executors: Docker, machine (Linux VM), macOS, Windows and Arm with resource_class sizing
5. Steps: checkout, run and other built-in step types
6. Pipelines UI: pipelines, workflows, jobs and step output
7. Environment variables: project variables and built-in CIRCLE_ variables
8. Config validation: the CircleCI CLI with circleci config validate
9. Debugging: rerun a job with SSH and read step logs
10. First pipeline: build and test a Node.js or Python application on every push

DAY 2 — Essential: Caching, workspaces, orbs and workflow control

Included from Essential

11. Caching: save_cache and restore_cache with checksum-based keys
12. Workspaces: persist_to_workspace and attach_workspace to pass files between jobs
13. Artifacts and test results: store_artifacts, store_test_results and JUnit XML
14. Workflow orchestration: requires, fan-out and fan-in, branch and tag filters
15. Approval jobs: manual gates before deployment
16. Orbs: using certified and partner orbs such as node, python and aws-cli, and pinning versions
17. Contexts: sharing secrets across projects and restricting contexts to security groups
18. Parallelism and test splitting: splitting tests by timing data across containers
19. Docker builds: setup_remote_docker and Docker layer caching
20. Triggers and parameters: scheduled pipelines, pipeline parameters and conditional workflows
21. Reusable config: commands, executors and parameters in config version 2.1

DAY 3 — Intermediate: Dynamic config, deployments, runners and security

Included from Intermediate

22. Dynamic configuration: setup workflows, the continuation orb and path filtering for monorepos
23. Deployments: AWS, Google Cloud, Azure and Kubernetes deploy jobs using orbs
24. OIDC tokens: keyless authentication to AWS IAM roles and Google Cloud workload identity
25. Self-hosted runners: machine runner and container runner on Kubernetes
26. Private orbs: orb development kit, publishing and semantic versioning
27. Security: secret masking, restricted contexts, orb usage policy and project settings
28. Insights: workflow duration, success rate, flaky test detection and credit usage
29. Notifications: Slack orb and webhooks for pipeline events
30. CircleCI API v2: triggering pipelines and querying workflows and jobs

31. Troubleshooting: cache misses, out-of-memory containers, resource classes and flaky tests

DAYS 4-5 **Advanced: Scale, governance, server and migration** — **New at this level**

32. Pipeline performance at scale: right-sizing resource classes, tuning parallelism and caching strategy
33. Config policies: policy as code with OPA to enforce config compliance
34. Governance: organization settings, groups, project roles and audit logs
35. CircleCI server: self-hosted installation on Kubernetes, architecture and upgrades
36. Monorepo and microservice patterns: shared orbs, generated config and pipeline per service
37. Release strategies: blue-green and canary releases on Kubernetes with automated rollback
38. Supply chain security: SBOMs, image signing and dependency scanning in pipelines
39. Cost management: credit usage reports and executor selection
40. Migration: moving from Jenkins, Travis CI or GitHub Actions to CircleCI config
41. Capstone: governed delivery platform on CircleCI for several services

PRACTICE

Hands-on labs

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

FOUNDATION

Run a first CircleCI pipeline

Connect a repository, write a config.yml that installs dependencies and runs tests in a Docker executor, then debug a failing step over SSH.

ESSENTIAL

Optimize a multi-job workflow

Split a slow test suite across parallel containers, add caching and workspaces, and gate a staging deploy behind an approval job.

INTERMEDIATE

Deploy with OIDC and dynamic config

Build a monorepo pipeline that only runs changed services and deploys them to a cloud account using OIDC instead of stored keys.

ADVANCED

Governed CircleCI platform capstone

Design a shared orb, config policies and a canary release pipeline for three services, with cost and reliability dashboards.

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 Circleci 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 CIRCLECI 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/circleci/

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Circleci Advanced Training

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