DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Automation Testing Advanced Training

Lead test automation at scale with a risk-based strategy, robust framework architecture, quality gates and fast feedback.

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	45 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/testing/automation-testing-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 Automation Testing course path, you will be able to:

1

Automate across layers

Write reliable unit, API, UI and mobile tests with the right tool for each layer.

2

Build maintainable frameworks

Design frameworks with page objects, test data and reporting that stay stable as products grow.

3

Deliver fast quality feedback

Run tests in parallel in CI with quality gates that catch regressions before release.

WHAT THE ADVANCED LEVEL ADDS

Strategy, scale and quality engineering

Hands-on: Enterprise automation framework. Design a layered framework that runs UI, API and mobile tests in sharded CI jobs against ephemeral environments with quality gates and a test analytics dashboard.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Extend automation to BDD, mobile and contract tests and run suites in parallel from CI with dependable environments.
- 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

Automation Testing Advanced Training agenda

45 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: Testing fundamentals and first automated tests

Included from Foundation

1. Software testing basics: SDLC and STLC, test levels and test types
2. Manual vs automation testing: benefits, limits and what to automate first
3. The test automation pyramid: unit, API and UI tests and the cost of each layer
4. Tool landscape: Selenium, Playwright, Cypress, Appium, REST Assured, Postman and JMeter
5. Programming for testers: Java or Python variables, loops, functions and classes
6. Test case design: equivalence partitioning, boundary values and decision tables
7. Unit test frameworks: JUnit 5, TestNG or pytest, assertions and the test lifecycle
8. Environment setup: JDK or Python, an IDE, Git and Maven or pip
9. First UI automation: open a browser, find elements and assert page content
10. Version control for test code: Git basics, branches and pull requests

DAY 2 — Essential: UI and API automation with clean design

Included from Essential

11. Selenium WebDriver: locators, actions, waits and browser options
12. Playwright: auto-waiting, locators, codegen and the trace viewer
13. Page Object Model: page classes, reusable components and clean assertions
14. Test data: data providers, CSV and JSON files and test data factories
15. API testing with Postman: collections, environments, test scripts and Newman runs
16. API automation in code: REST Assured or Python requests, JSON assertions and schema validation
17. Assertions and reporting: soft assertions, screenshots and Allure or Extent reports
18. Handling flakiness: synchronisation, stable locators and test isolation
19. Cross-browser testing: Chromium, Firefox, Edge and WebKit runs
20. Debugging failures: logs, screenshots, videos and traces
21. Test organisation: suites, tags, groups and naming conventions

DAY 3 — Intermediate: BDD, mobile, parallel runs and CI

Included from Intermediate

22. BDD with Cucumber: Gherkin feature files, step definitions and hooks
23. Hybrid frameworks: combining Page Objects, data-driven and keyword-driven designs
24. Mobile automation with Appium: UiAutomator2 and XCUITest drivers, capabilities and locators
25. Parallel execution: TestNG or pytest-xdist parallelism and Selenium Grid
26. Containers for testing: Dockerised browsers and Testcontainers for dependencies
27. CI integration: running suites in Jenkins or GitHub Actions on every commit
28. Database validation: SQL checks from tests through JDBC or Python drivers
29. Contract testing: consumer-driven contracts with Pact
30. Service virtualisation: WireMock stubs for unstable or costly dependencies

31. Visual and accessibility checks: screenshot comparison and axe-core scans
32. Security basics in automation: OWASP ZAP baseline scans in pipelines
33. Test metrics: pass rate, flaky test rate, execution time and requirement coverage

DAYS 4-5 **Advanced: Strategy, scale and quality engineering** — New at this level

34. Test strategy: risk-based testing and shift-left and shift-right practices
35. Framework architecture: layered design, configuration management and extension points
36. Scaling execution: cloud browser and device grids and sharding large suites
37. Test environments: ephemeral environments, seeded data and environment parity
38. Quality gates: blocking merges on test results and coverage and quarantining flaky tests
39. Performance in pipelines: k6 or JMeter smoke load tests as CI stages
40. Test analytics: dashboards, failure clustering and trend tracking
41. AI-assisted testing: self-healing locators, generated tests and their review limits
42. Testing microservices: balancing component, contract and end-to-end tests
43. Maintaining large suites: refactoring, retiring tests and clear ownership
44. Team practices: code reviews for tests, coding standards and test documentation
45. Capstone: an automation framework covering UI, API and mobile with CI quality gates

PRACTICE

Hands-on labs

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

FOUNDATION

First automated test project

Set up a Git-tracked test project, write unit tests for a small function and a browser test that logs in to a demo site and checks the landing page.

ESSENTIAL

UI and API regression suite

Build a Page Object based UI suite and a REST API suite for the same application, drive both from JSON test data and publish an Allure report.

INTERMEDIATE

Parallel BDD suite in CI

Write Cucumber scenarios for key user journeys, run them in parallel on a containerised Selenium Grid from GitHub Actions and stub a third-party API with WireMock.

ADVANCED

Enterprise automation framework

Design a layered framework that runs UI, API and mobile tests in sharded CI jobs against ephemeral environments with quality gates and a test analytics dashboard.

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 Automation Testing 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 AUTOMATION TESTING 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/testing/

ENROL OR RESERVE A SEAT
Automation Testing Advanced Training

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