DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Appium Advanced Training

Design scalable mobile automation frameworks and quality strategies with visual, accessibility and custom Appium extensions.

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/appium/appium-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 Appium course path, you will be able to:

1

Automate mobile apps

Write Appium tests for native, hybrid and mobile web apps on Android and iOS.

2

Build maintainable test suites

Use robust locators, gestures and the Page Object Model to keep suites stable.

3

Scale mobile testing

Run tests in parallel on devices and clouds through CI with clear reporting and quality gates.

WHAT THE ADVANCED LEVEL ADDS

Framework architecture, quality strategy and scale

Hands-on: Cross-platform automation framework. Build a reusable Android and iOS framework with parallel cloud execution, visual checks, reports and CI quality gates.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Scale mobile suites with parallel devices, Selenium Grid and device clouds, run them in CI and troubleshoot flaky tests.
- 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

Appium 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: Mobile testing concepts, Appium setup and first test

Included from Foundation

1. Mobile test automation concepts: native, hybrid and mobile web apps, emulators, simulators and real devices
2. Appium architecture: client-server model, W3C WebDriver protocol, sessions, drivers and plugins
3. Appium drivers: UiAutomator2 and Espresso for Android, XCUITest for iOS and other platform drivers
4. Installing Appium: Node.js, npm install of the Appium server and appium driver install commands
5. Android setup: JDK, Android SDK, ANDROID_HOME, platform tools, emulators and adb basics
6. iOS setup: Xcode, simulators, WebDriverAgent and macOS requirements
7. Environment checks: appium driver doctor and verifying a ready environment
8. Appium Inspector: connecting to a session and exploring the element tree
9. Capabilities: platformName, appium:automationName, appium:app, deviceName and udid
10. Client libraries: Java, Python and JavaScript clients and choosing one for your team
11. First test: launch an Android app, find an element, tap it and assert the result

DAY 2 — Essential: Locators, gestures, app control and test design

Included from Essential

12. Locator strategies: accessibility id, id, XPath, Android UiAutomator and iOS predicate string and class chain
13. Waits and synchronisation: implicit waits versus explicit waits and avoiding sleeps
14. Gestures: tap, long press, swipe, scroll and drag using W3C Actions and mobile: commands
15. App lifecycle: install, activate, background, terminate and noReset versus fullReset strategies
16. System interactions: alerts, permissions dialogs, keyboard handling and device orientation
17. Hybrid apps: switching between NATIVE_APP and WEBVIEW contexts
18. Mobile web testing: Chrome on Android and Safari on iOS
19. Test frameworks: TestNG or JUnit for Java and pytest for Python with setup and teardown
20. Page Object Model: screen objects, reusable actions and maintainable test code
21. Data-driven tests: parameterised tests with external test data
22. Evidence capture: screenshots, screen recording, device logs and Appium server logs

DAY 3 — Intermediate: Parallel runs, device clouds, CI and troubleshooting

Included from Intermediate

23. Parallel execution: multiple devices, unique systemPort and wdaLocalPort and thread-safe drivers
24. Selenium Grid 4 with Appium nodes: routing sessions to emulators and devices
25. Cloud device farms: BrowserStack, Sauce Labs, LambdaTest and AWS Device Farm capabilities
26. CI integration: running emulators and Appium in Jenkins or GitHub Actions pipelines
27. Reporting: Allure and ExtentReports with screenshots and logs
28. Appium plugins: images plugin, execute-driver and other community plugins
29. iOS real devices: WebDriverAgent signing, provisioning profiles and trusted developers
30. Special flows: deep links, push notifications and biometric authentication in tests

31. Device conditions: network throttling, geolocation and performance data
32. Troubleshooting: session creation errors, stale elements, timeouts and reading server logs
33. Flaky test analysis: root causes, retries with care and stabilising locators

DAYS 4-5 **Advanced: Framework architecture, quality strategy and scale** — New at this level

34. Framework architecture: layered design, configuration management and driver factories
35. Device lab management: in-house device labs versus cloud, device selection and maintenance
36. Visual testing: screenshot comparison with the images plugin and visual AI tools
37. Accessibility testing: accessibility identifiers, screen reader labels and automated checks
38. Flutter and React Native apps: Flutter driver options and testID-based locators
39. Extending Appium: writing custom plugins and understanding driver internals
40. Migrating from Appium 1: capability prefixes, separately installed drivers and removed endpoints
41. Security and data: test accounts, secrets management and privacy in test data
42. Performance and cost at scale: test selection, sharding and device-minute budgets
43. Quality strategy: test pyramid for mobile, unit, Espresso and XCUITest versus Appium end-to-end
44. Metrics and governance: pass rates, flakiness trends and release quality gates
45. Capstone: cross-platform mobile automation framework running in CI on a device cloud

PRACTICE

Hands-on labs

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

FOUNDATION

First Android automation test

Install Appium and the UiAutomator2 driver, inspect a demo app with Appium Inspector and write a first login test.

ESSENTIAL

Page-object test suite

Build a Page Object Model suite covering login, list scrolling, a hybrid web view and permission handling on Android and iOS.

INTERMEDIATE

Parallel tests in CI

Run the suite in parallel on two emulators and a cloud device from a GitHub Actions pipeline with Allure reports.

ADVANCED

Cross-platform automation framework

Build a reusable Android and iOS framework with parallel cloud execution, visual checks, reports and CI quality gates.

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 Appium 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 APPIUM 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/appium/

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