



techventive.io
US Engineering Studio

Cohort enrolling now

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QA AUTOMATION ENGINEER BOOTCAMP

QA Automation *Engineer*

6 weeks · Beginner+ to Intermediate · live + recorded

A hands-on QA automation curriculum covering manual QA fundamentals, Selenium, Playwright, Cypress, API testing with Postman + REST Assured, BDD with Cucumber, mobile testing with Appium, performance testing, and full CI integration — delivered by senior US QA engineers.

10

CORE MODULES

35+

PRACTICAL SKILLS

5+

PROJECT TRACKS

1:1

CAREER SUPPORT

The *production stack* you'll master

Each tool taught with the workflows and failure modes practitioners actually meet on the job.

01

Manual QA

Test design fundamentals

02

Selenium

Cross-browser UI

03
Playwright
Modern browser automation

04
Cypress
Component & E2E

05
Postman
API testing

06
REST Assured
Java API automation

07
Cucumber
BDD framework

08
JMeter
Performance testing

09
Appium
Mobile automation

10
GitHub Actions
CI integration

Foundation *modules*

First half of the curriculum – core fundamentals and the most common day-to-day skills.

01

QA Fundamentals

What testers actually do, test pyramid, types of testing, exploratory vs. scripted, defect lifecycle.

02

Manual Testing & Test Design

Test cases, test plans, equivalence partitioning, boundary value analysis, decision tables, exploratory charters.

03

Selenium WebDriver

Locators, waits, Page Object Model, cross-browser, Selenium Grid, debugging flaky tests.

04

Playwright

Modern API, auto-waits, tracing, codegen, mobile viewport, parallel execution, MCP server integration.

05

Cypress

Component testing, network stubbing, custom commands, fixtures, CI integration, video on failure.

Manual Testers

Level up from manual to fully automated test engineering.

Freshers

Enter QA with both manual and automation skills — strong hireability.

Developers

Become a 'developer in test' — high demand in modern engineering orgs.

Career Switchers

Move into QA from any technical or detail-oriented background.

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Advanced *modules*

Second half – production patterns, real-world operations, and the senior-level depth.

06

API Testing

REST basics, Postman collections, Newman, REST Assured, schema validation, contract testing with Pact.

07

BDD with Cucumber

Gherkin syntax, step definitions, scenarios, data tables, hooks, BDD anti-patterns.

08

Performance Testing

JMeter test plans, k6 scripts, load vs. stress vs. soak, percentiles vs. averages, results analysis.

09

Mobile Automation

Appium architecture, locators on Android & iOS, gestures, real-device vs. emulator, parallel runs.

CI/CD Integration

GitHub Actions, parallel test runs, test reports, slack notifications, flake quarantine, the test ownership model.

🔑 Hands-on project outcomes

- Design and execute a complete manual test plan.
- Build a Selenium UI test suite with Page Object Model.
- Build a Playwright test suite with tracing and visual diffs.
- Build a Postman collection that runs in CI via Newman.
- Run a JMeter load test and analyse the results.
- Build a BDD suite using Cucumber with proper step layering.
- Automate Android + iOS smoke tests with Appium.
- Integrate the full test suite into GitHub Actions with parallel runs.

🎓 Course learnings

- Test design fundamentals — the testing mindset.
- Multiple automation tools (Selenium, Playwright, Cypress).
- API + UI + mobile + performance test layers.
- BDD and the collaboration patterns it enables.
- CI integration and the test ownership model.
- Debugging flaky tests — the QA superpower.

Career readiness, *built in.*

techventive.io turns this curriculum into job-ready positioning — project explanation, résumé and LinkedIn rewrites, GitHub portfolio polish, technical interview preparation, and placement-focused guidance through to the offer letter.

QA Automation Engineer

SDET

Test Engineer

Performance Engineer

Mobile Test Engineer

QA Lead

Manual Testers

Freshers

Developers

Career Switchers

Start your QA Automation Engineer journey with techventive.io.

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