DevOpsSchool

Course curriculum · November 2026

LEVEL 03 OF 04 · INTERMEDIATE

Performance Testing Intermediate Training

Correlate load results with server metrics, find bottlenecks in apps, databases and infrastructure, and run performance tests in CI.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **3 days · Days 1-3**	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 · This curriculum	5 days · Next step

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	37 topics · Foundation to Intermediate
Hands-on labs	3 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/performance-testing-intermediate-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 Performance Testing course path, you will be able to:

1

Design realistic load tests

Model production workloads and script correlated, data-driven tests in JMeter and k6.

2

Diagnose performance bottlenecks

Correlate load results with metrics, traces and profiles to find and fix root causes.

3

Engineer performance continuously

Run performance gates in CI/CD and plan capacity for scalable, resilient systems.

WHAT THE INTERMEDIATE LEVEL ADDS

Monitoring, bottleneck analysis, CI integration and distributed runs

Hands-on: Find and fix a bottleneck. Run a stress test with live Grafana dashboards and traces, locate a slow database query or exhausted pool, fix it and prove the improvement in CI.

WHO SHOULD ATTEND

- Regular Performance Testing users who want to automate, integrate and manage it at a deeper level.
- Specialists who support Performance Testing for colleagues or customers.
- Leads preparing Performance Testing for wider use across projects.

BEFORE YOU START

- The Essential level, or equivalent hands-on experience.
- You can already: Build realistic, data-driven load scripts in JMeter and k6 with correlation, assertions and workload models that match production.
- 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 INTERMEDIATE

Performance Testing Intermediate Training agenda

37 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: Performance concepts, test types and first JMeter script

Included from Foundation

1. Why performance testing: user experience, capacity, scalability and the cost of slow or failing releases
2. Test types: load, stress, spike, soak or endurance, volume, scalability and breakpoint tests
3. Core metrics: response time percentiles (p90, p95, p99), throughput, error rate, concurrency and Apdex
4. Little's Law and workload basics: arrival rate, think time, pacing and open versus closed workload models
5. Performance requirements: turning business goals into SLAs and SLOs with measurable thresholds
6. Test environment: production-like sizing, test data, isolation and monitoring the system under test
7. Tool landscape: Apache JMeter, Grafana k6, Gatling, Locust and cloud load services compared
8. Installing JMeter: Java requirements, GUI versus non-GUI mode, plugins manager and folder layout
9. JMeter building blocks: test plan, thread groups, HTTP requests, listeners, config elements, timers and pre or post processors
10. Recording a script: HTTP(S) Test Script Recorder, browser proxy setup and the JMeter root certificate
11. First run: running in non-GUI mode with jmeter -n -t -l and generating the HTML dashboard report
12. Reading results: aggregate report, response time over time, errors and spotting obvious bottlenecks

DAY 2 — Essential: Realistic scripts, correlation, parameterisation and assertions

Included from Essential

13. Parameterisation: CSV Data Set Config, user variables, random and counter functions for unique test data
14. Correlation: extracting session IDs, CSRF tokens and OAuth tokens with Regular Expression, JSON and Boundary extractors
15. Assertions: response, JSON, duration and size assertions without overloading the load generator
16. Logic controllers: transaction, if, loop, while, throughput and once-only controllers for user journeys
17. Timers and pacing: constant, uniform random and constant throughput timers, think time from real analytics
18. Workload modelling: transaction mix from production logs, concurrency targets and ramp-up profiles
19. API performance testing: REST and GraphQL requests, headers, authentication and payload variation
20. Grafana k6 basics: JavaScript test scripts, virtual users, scenarios and executors such as ramping-arrival-rate
21. k6 checks and thresholds: pass and fail criteria on p95 latency and error rate in code
22. Gatling and Locust overview: simulation DSL, feeders and Python user classes for teams that prefer code
23. Script debugging: View Results Tree, debug post processor, logging and validating one user before scaling up
24. Test execution checklist: smoke run, baseline run, environment readiness and stakeholder sign-off

DAY 3 — Intermediate: Monitoring, bottleneck analysis, CI integration and distributed runs

New at this level

25. Live results: JMeter Backend Listener and k6 outputs to InfluxDB or Prometheus with Grafana dashboards
26. Server-side monitoring: CPU, memory, disk, network, thread pools and connection pools during the test
27. APM correlation: tracing slow transactions with OpenTelemetry, Grafana Tempo, Dynatrace, New Relic or AppDynamics
28. JVM and runtime analysis: garbage collection logs, heap usage, thread dumps and profilers such as async-profiler

29. Database bottlenecks: slow query logs, execution plans, missing indexes, lock contention and connection limits
30. Front-end performance: Core Web Vitals, Lighthouse, WebPageTest and browser-level tests with k6 browser
31. Distributed load generation: JMeter remote servers, k6 on Kubernetes with the k6 Operator, network and clock checks
32. Performance tests in CI/CD: Jenkins, GitHub Actions or GitLab CI jobs with threshold-based quality gates
33. Result comparison: baselines, run-to-run variance, regression detection and trend reports
34. Testing microservices: service virtualisation with WireMock, mocks for third-party APIs, testing one service at a time
35. Messaging and protocol tests: Kafka, JDBC, WebSocket and gRPC load with plugins and extensions
36. Troubleshooting test issues: load generator saturation, coordinated omission, caching effects and noisy environments
37. Reporting: executive summary, findings with evidence, risk rating and tuning recommendations

PRACTICE

Hands-on labs

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

FOUNDATION

Record and run a first load test

Record a login-and-browse journey with the JMeter recorder, run it for 20 virtual users in non-GUI mode and read the HTML dashboard.

ESSENTIAL

Data-driven API load test in k6

Script an authenticated API journey in JMeter and in k6 with CSV test data, token correlation and thresholds, then compare baseline results.

INTERMEDIATE

Find and fix a bottleneck

Run a stress test with live Grafana dashboards and traces, locate a slow database query or exhausted pool, fix it and prove the improvement in CI.

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 Performance 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)	3 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 PERFORMANCE 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
Performance Testing Intermediate Training

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Next step after this level: Performance Testing Advanced Training - Lead performance engineering for large systems: plan capacity, test at scale in cloud and Kubernetes, and build continuous performance governance.