DevOpsSchool

Course curriculum · November 2026

PERFORMANCE TESTING · TRAINING PROGRAM

Automation Testing Advance Course

A practical, hands-on Automation Testing Advance Course curriculum: 142 topics over 5 days. Learn live online in a small batch, as a private corporate batch, or self-paced with one year of LMS access.

LIVE ONLINE **Max 8-10 hours**	CORPORATE **Private team batch, on demand**	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**

INSIDE THIS CURRICULUM

Who should attend	Objectives, audience, prerequisites
Agenda	142 topics over 5 days
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.html
Talk to us: WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

COURSE FIT

Who this program is for

Use this page to decide whether Automation Testing Advance Course matches your role and experience.

1

Objectives

Understand the core concepts and usage model, apply practical workflows through examples and guided tasks, and prepare for implementation, certification or team adoption.

2

Who should attend

Developers, DevOps engineers, administrators, SREs, security engineers, platform teams, release teams, technical leads and corporate teams working with this topic.

3

Before you start

Basic computer literacy and awareness of software, operations, cloud, DevOps or security workflows is helpful. Deep programming experience is not needed unless the topic requires it.

AGENDA AT A GLANCE · 142 TOPICS OVER 5 DAYS

Day 1

56 topics · Required components of Running Software Environment

Day 2

14 topics · Understanding the Need of Kubernetes

Day 3

16 topics · Introduction To Selenium

Day 4

32 topics · What Is Performance Testing?

Day 5

24 topics · Lets understand Continuous Integration

AGENDA · 142 TOPICS OVER 5 DAYS

Automation Testing Advance Course agenda

Days are for corporate (day-wise) delivery; live online batches cover the agenda in max 8-10 hours.

DAY 1

56 topics

1. Required components of Running Software Environment
2. Introduction of Hardware
3. Introduction of KERNAL
4. Namespaces
5. Cgroups
6. Capabilities
7. Filesystem
8. Boot Filesystem
9. Root Filesystem
10. User Filesystem
11. App Filesystem
12. What is Docker?
13. Introduction of Docker
14. Introduction of Container?
15. Components of Containers & How Containers works?
16. History & Origin of Docker
17. Types of Release in Docker
18. Latest version of Docker
19. Technology used in Docker development
20. Official Website & Reference
21. Major Use Cases of Docker
22. Major Feature and Advantage of Docker
23. Terminology used in Docker
24. Components of Docker
25. Docker Engine
26. Docker Registry
27. Docker Image
28. Docker Container
29. Architecture of Docker & How Docker works?
30. Workflow of Docker
31. Best Alternative of Docker
32. Installing and Configuring Docker
33. Installing Docker in Centos 7
34. Installing Docker in Ubuntu 20
35. Installing Docker in Windows 2019
36. Configuring Docker

37. Basic Workflow of Container using Docker
38. Commonly used commands in Docker
39. Create a Docker Container
40. Start a Docker Container
41. Stop a Docker Container
42. Restart a Docker Container
43. Pause a Docker Container
44. Unpause a Docker Container
45. Remove a Docker Container
46. Kill a Docker Container
47. Difference between Docker Stop & Docker Start
48. Difference between Docker Pause & Docker Unpause
49. Difference between Docker Stop & Docker Kill
50. Differences & Comparison of Docker Container with
51. Docker Container vs Virtual Machines
52. Docker Container vs Kubernetes pod
53. Docker Container vs Podman Container
54. dockerd vs containerd
55. dockerd vs CRI-O
56. CRI-O vs runc

DAY 2

14 topics

57. Understanding the Need of Kubernetes
58. Understanding Kubernetes Architecture
59. Understanding Kubernetes Masters and its Component
60. Understanding Kubernetes Nodes and its Component
61. Understand Kubernetes Concepts
62. Understand Kubernetes Terminology
63. Kubernetes Clusters Requirements
64. Understanding Kubernetes Clusters using kubeadm
65. Demo: Installing and Configuring Kubernetes Master
66. Demo: Installing and Configuring Kubernetes Workers
67. Demo: Install and Configure Workstation using Kubectl
68. Understanding a concept of Namespace
69. Demo: Define your first Kubernetes pod
70. Demo: Working and Deep Dive with Kubernetes pod

DAY 3

16 topics

71. Introduction To Selenium
72. What is Selenium?

73. What are the components of Selenium?
74. Understanding Why selenium is better than other tools?
75. Advantages and disadvantage of Selenium

Selenium Hands-On

76. What are the basic commands in Selenium?
77. Commands to open and close a browser
78. Get Commands
79. Navigation Commands
80. Switch Commands
81. Interacting with WebElement
82. What are Web Elements and How to Locate Web Elements?
83. Understanding What are Web Elements?
84. Understanding Types & Techniques of Locators to locate WebElements?
85. How to customize Xpath to Locate various WebElements?
86. Hands - on example with “NewTours” Web Application to experience Selenium Automation Execution.

DAY 4 — 32 topics

87. What Is Performance Testing?
88. Introduction
89. The Demo Application
90. What Can JMeter Do?5m
91. Types of Performance Tests
92. Introducing JMeter
93. How JMeter Works?
94. Installation Requirements
95. Installation and Directory Structure
96. Running JMeter
97. Configuring Plugins
98. Configuring a Test Plan
99. Structure of a Test
100. Test Plan
101. Thread Groups
102. Configuration Elements
103. Controllers and Samplers
104. Timers
105. Assertions
106. Listeners
107. Execution Order and Rules
108. Running the Test
109. Recording a Test

110. Configuring the Browser
111. Firefox Proxy Setting for Localhost
112. Configuring the Test Script Recorder
113. Recording a Test Script
114. Organizing the Recorded Script
115. Recording an HTTPS Website
116. Assertions in Jmeter
117. How to validate Jmeter tests- Pass/Fail status
118. Different types of Assertions which can you use on Jmeter tests

DAY 5 24 topics

119. Lets understand Continuous Integration
120. What is Continuous Integration
121. Benefits of Continuous Integration
122. What is Continuous Delivery
123. What is Continuous Deployment
124. Continuous Integration Tools
125. Jenkins Vs TeamCity Vs Bamboo
126. What is Jenkins
127. Object Properties and Method
128. Accessing and Displaying the Object
129. Primitive and Reference Type and Primitive Wrapper Type
130. Class ,Constructor and new Operator
131. Inheritance
132. Getter and Setter Method
133. Static Class
134. Jenkins Installation
135. Prerequisites
136. Installing Jenkins using Yum
137. Installing Jenkins using Apt
138. Installing Jenkins using MSI
139. Installing Jenkins using Tomcat
140. Installing as a Service
141. Starting and Stopping Jenkins
142. Jenkins Dashboard Tour

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	This program plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate	Planned with your team	A private batch for your team, on demand, with examples mapped to your platforms.	**Quote on request**

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on tasks and assignments. 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 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 courses: www.devopsschool.com/courses/

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Automation Testing Advance Course

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More Performance Testing training: www.devopsschool.com/courses/testing/