DevOpsSchool

Course curriculum · November 2026

DEVOPS · TRAINING PROGRAM

Continuous Integration Training

A practical, hands-on Continuous Integration Training curriculum: 119 topics over 3 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	119 topics over 3 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/devops/continuous-integration-training.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 Continuous Integration Training 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 · 119 TOPICS OVER 3 DAYS

Day 1

37 topics · Continuous Integration Concept and Process

Day 2

25 topics · Continuous Quality

Day 3

57 topics · Building a Solution

AGENDA · 119 TOPICS OVER 3 DAYS

Continuous Integration Training agenda

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

DAY 1

37 topics

1. Continuous Integration Concept and Process
2. Continuous Integration and Delivery Process
3. Problem That DevOps Solves
4. Explore the DevOps background, approach, and best practices
5. Integrate test automation with DevOps
6. Implement continuous testing
7. Learn how DevOps practices and principles improve software quality and efficiency
8. Understand the differences between Continuous Integration and traditional operational methodologies
9. Discover the major steps required to successfully implement delivery pipelines
10. Continuous Integration Transition to a Project
11. Understanding the Continuous Integration and Deployment (CI/CD)
12. Implement DevOps - Organization & Culture
13. Tools and Technologies Introduction to Continuous Integration
14. What Is CI?
15. Why CI?
16. CI Philosophy
17. Advantages of CI Within Software Development
18. CI as an Enabler
19. Benefits of Continuous Integration
20. How to Implement CI
21. Setting Up a CI Environment
22. CI Tools
23. Automated Builds
24. Automated Tests
25. Committing Code
26. Creating a Full-featured CI Environment
27. Components of a Full-featured Environment
28. Requirements of a CI Environment
29. Organizational Impact and Buy-in
30. Developer Philosophy
31. DB Integration
32. Automated DB Integration
33. Continuous DB Integration
34. Continuous Testing
35. Automated Unit, Integration, System and Functional Tests
36. Writing Tests for Defects

37. Integration of Automated Testing With CI

DAY 2

25 topics

38. Continuous Quality
39. Code Inspection vs. Code Testing
40. Automated Code Analysis
41. Code Analysis Tools
42. Continuous Deployment
43. Philosophy
44. Release and Labeling Strategies
45. Continuous Improvement
46. The Feedback Loop
47. The Metrics Loop
48. The Improvement Cycle
49. Best Practices
50. Best of Breed Tools
51. Best Practices for Quality Software
52. Best Practices for CI
53. Rolling Out CI Within Your Organization
54. Defining and Measuring Metrics and Reporting
55. Defining Proper Metrics
56. Measuring and Reporting
57. Implementing a Change Strategy to Achieve Desired Metrics
58. Minimum Requirements
59. Overview
60. The Check-In Dance
61. Continuous Integration Do's and Don'ts
62. Summary

DAY 3

57 topics

63. Building a Solution
64. Overview
65. Hello, Continuous Integration
66. Recommended Solution Layout
67. The Software
68. Building on the CI Server
69. Build Failure Notifications
70. Receiving a Build Failure Notification
71. Summary
72. Build Scripts

73. Why Do We Need a Build Script?
74. Decision Point: How to Add Build Steps
75. Recommendation: Do Not Modify csproj/vbproj
76. Recommendation: Do Not Script csc.exe/vbc.exe
77. Recommendation: Script Everything, but Compile with MS-Build
78. Why the Command Line?
79. Hello, MS-Build
80. Defining Targets
81. Running from the Command Line
82. Compiling the Solution
83. Setting the Default Target
84. Eliminating Duplication
85. Switching Between Debug and Release
86. Scripting Other Tasks
87. Using Custom Tasks
88. Handling Non-Fatal Command Failures
89. Depending on Multiple Targets
90. Running on the CI Server
91. Integrating External Tools
92. External Tools
93. Test Runners
94. Integrating N Unit via Exec Task
95. Failing the Build with Exit Codes
96. Running Tests on the Build Server
97. Displaying Test Reports
98. Coverage
99. 100% Coverage Myth
100. Integrating Coverage
101. Integrating N Cover via Custom MSBuild Tasks
102. Failing the Build on Low Coverage
103. Running Coverage on the Build Server
104. Static Code Analysis
105. Integrating FxCop
106. Failing the Build by Analyzing XML Output
107. Deployment Automation
108. Packaging/Deployment Options
109. Server Preparation
110. Deployment Pipeline
111. Continuous Deployment
112. Adding Packaging to the Build Script
113. Finding Microsoft Web Deploy on a Developer Machine

114. Packaging from the Command Line
115. Packaging on the Build Server
116. Installing Microsoft Web Deploy on the Web Server
117. Adding Deployment to the Build Script
118. Integrating Deployment into the Pipeline
119. Demonstrating Continuous Deployment

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/

ENROL OR RESERVE A SEAT
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