DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Open Edx Advanced Training

Run Open edX on Kubernetes at scale, customise it without forking, and plan upgrades, monitoring and data privacy operations.

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	47 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/openedx/open-edx-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 Open Edx course path, you will be able to:

1

Launch an Open edX site

Install Open edX with Tutor and publish complete, graded courses in Studio.

2

Administer and extend it

Configure plugins, XBlocks, SSO, LTI and analytics for a growing learning platform.

3

Operate at production scale

Run, monitor, upgrade and customise Open edX on Kubernetes for many learners.

WHAT THE ADVANCED LEVEL ADDS

Kubernetes, scaling, customisation and upgrades

Hands-on: Run Open edX on Kubernetes. Deploy Open edX with tutor k8s against managed MySQL, MongoDB and S3, scale LMS replicas under load and rehearse a release upgrade.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Administer Open edX with Tutor, extend it with plugins and XBlocks, integrate SSO and LTI, and troubleshoot common failures.
- 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

Open Edx Advanced Training agenda

47 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: Open edX architecture, Tutor install and first course

Included from Foundation

1. Open edX overview: origins at edX, community stewardship by the Axim Collaborative and named releases
2. Platform architecture: LMS, Studio, micro-frontends (MFEs), Celery workers, MySQL, MongoDB, Redis and search
3. Learner experience: course outline, units, videos, problems, progress page and certificates
4. Course structure: courses, sections, subsections, units and components in the OLX model
5. Tutor: the official Docker-based distribution, system requirements and supported releases
6. Installing Open edX: pip install tutor, tutor local launch and setting LMS and Studio hostnames
7. Admin basics: creating a superuser with tutor local do createuser and the Django admin
8. Studio first steps: create a course, schedule and details, and course team roles
9. Adding content: text, video and problem components, publishing and previewing in the LMS
10. Enrolment basics: course modes, self-enrolment and invitation-only courses
11. First course launch: a short course with one graded quiz, published and tested as a learner

DAY 2 — Essential: Course authoring, grading and learner management

Included from Essential

12. Problem types: multiple choice, checkboxes, numerical, text input, drag and drop and advanced CAPA problems
13. Grading policy: assignment types, weights, grace period, pass threshold and the gradebook
14. Course settings: advanced settings, prerequisites, entrance exams and certificate configuration
15. Content libraries: reusable component libraries and randomised content blocks
16. Cohorts, teams and discussions: forum moderation roles and cohort-specific content
17. Learner management: instructor dashboard, CSV enrolment, data downloads and grade reports
18. Certificates: web certificates, signatories and generating certificates for passing learners
19. Course import and export: OLX tar.gz archives and course re-runs for new terms
20. Video handling: transcripts, YouTube versus hosted video and upload workflows
21. Theming basics: Indigo theme, logos and colours through Tutor configuration and MFE branding
22. Email: SMTP configuration in Tutor and bulk email to learners
23. Course team workflow: staff, admin and beta tester roles, release scheduling and content review

DAY 3 — Intermediate: Tutor administration, plugins, integrations and troubleshooting

Included from Intermediate

24. Tutor configuration: config.yml, tutor config save --set and rendered environment files
25. Tutor plugins: enabling MFE, forum, notes, Indigo and Aspects, and writing a YAML or Python plugin
26. Custom images: tutor images build openedx with extra pip requirements and private XBlocks
27. XBlocks: installing third-party XBlocks such as ORA2 and H5P and enabling them as advanced modules
28. Authentication integrations: SAML and OAuth2 or OIDC single sign-on through third_party_auth
29. LTI integrations: Open edX as LTI 1.3 tool and consumer for external learning tools
30. Analytics with Aspects: ClickHouse, Superset dashboards and learner engagement reports

31. APIs: REST APIs for enrolments, courses and grades with OAuth2 client credentials
32. Security basics: HTTPS via Caddy, admin access control, rate limiting and applying release patches
33. Backups: MySQL and MongoDB dumps, media storage and restoring to a new instance
34. Troubleshooting: tutor local logs, Celery task failures, static asset and MFE configuration errors
35. Operations: management commands with tutor local do and exec, the Django shell and waffle flags

DAYS 4-5 **Advanced: Kubernetes, scaling, customisation and upgrades** **New at this level**

36. Tutor on Kubernetes: tutor k8s launch, namespaces, ingress, persistent volumes and scaling deployments
37. Managed services: Amazon RDS for MySQL, MongoDB Atlas, managed Redis and S3 storage for media
38. High availability: multiple LMS and CMS replicas, Celery worker queues and load balancer health checks
39. Performance tuning: caching, uWSGI workers, database indexes and a CDN for static and video assets
40. Customising without forking: Django plugins and Open edX Events and Filters (hooks)
41. MFE customisation: frontend plugin framework slots, custom MFE builds, header and footer overrides
42. Multi-site setups: site configuration, per-site theming and multi-tenant plugins
43. Upgrades: moving between named releases with Tutor, migrations and testing plugins and XBlocks
44. Monitoring: Prometheus exporters, Grafana dashboards and Sentry error tracking
45. Data privacy: GDPR user retirement pipeline, learner data exports and audit logs
46. CI/CD for Open edX: image builds in pipelines, staging environments and automated smoke tests
47. Capstone: production Open edX on Kubernetes with SSO, analytics, custom theme and backups

PRACTICE

Hands-on labs

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

FOUNDATION **Install Open edX and publish a course**
Install Open edX with Tutor on a single VM, create a staff user and publish a short course with a video and a graded quiz.

ESSENTIAL **Build a graded, certified course**
Create a course with mixed problem types, a weighted grading policy, cohorts and a web certificate, then enrol learners by CSV and pull grade reports.

INTERMEDIATE **Extend and integrate the platform**
Build a custom image with an extra XBlock, enable SSO and the Aspects analytics plugin, and restore the site from backup on a new VM.

ADVANCED **Run Open edX on Kubernetes**
Deploy Open edX with tutor k8s against managed MySQL, MongoDB and S3, scale LMS replicas under load and rehearse a release upgrade.

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 Open Edx 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 OPEN EDX 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/openedx/

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Open Edx Advanced Training

WHATSAPP · INDIA
+91 99057 40781

WHATSAPP · USA
+1 (469) 756-6329

EMAIL
contact@DevOpsSchool.com