DevOpsSchool

Course curriculum · November 2026

LINUX SYSADMIN (LFCS) · TRAINING PROGRAM

Yocto Embedded Linux Course

A practical, hands-on Yocto Embedded Linux Course curriculum: 95 topics over 4 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	95 topics over 4 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/linux/yocto-embedded-linux.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 Yocto Embedded Linux 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 · 95 TOPICS OVER 4 DAYS

Day 1
27 topics · Requirement

Day 2
21 topics · Embedded Linux Image Generation

Day 3
26 topics · Yocto meta layers

Day 4
21 topics · Device Tree

AGENDA · 95 TOPICS OVER 4 DAYS

Yocto Embedded Linux Course agenda

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

DAY 1

27 topics

1. Requirement
2. Personal Computer with Ubuntu 16.04 / 18.04 installed
3. Target running Embedded Linux
4. Yocto Build System Fundamentals
5. Yocto Project Overview and Yocto Projet History
6. Yocto Project Architecture & Fundamentals
7. Open Embedded Build Sytem Overview
8. Overview of source directory (poky)
9. Yocto System Terminologies (Task, Layers, Images, Recipes and etc)
10. Bitbake, Tasks in details
11. Hands On
12. Playing around with bitbake commands & Logs
13. Building Embedded Linux Image for the Target
14. Host Environment Setup
15. Brief introduction about Yocto image and BSP Layer
16. Downloading, Configuring the Yocto Source Packages
17. Building & running the basic console image
18. Building & Testing the basic image on the Target Platform
19. Yocto Recipes
20. Introduction to recipes and fundamental overview
21. bbclass fundamentals and write a simple helloworld recipe
22. Recipes variables glossary, bitbake variables
23. Extending the recipes with bbappend
24. Writing a recipe to build a source from the git
25. Recipe dependency management
26. Writing a simple helloworld recipe and integrating into the image
27. Writing a recipe to build a source from the git and patch management

DAY 2

21 topics

28. Embedded Linux Image Generation
29. Brief introduction to Yocto Default Images
30. Customization of existing default images
31. Generation of custom images with custom package groups
32. Hands on
33. Booting the Embedded Linux Platform with custom image
34. Working with bbclass

35. Brief introduction about bbclass
36. Introduction to existing poky bbclass
37. Writing a bbclass with best practices
38. Inheriting and extending the bbclass
39. Writing a simple bbclass
40. Extending the bbclass
41. Troubleshooting the build failure
42. Task Logs, Running specific tasks
43. Debug statements
44. Dependency graphs
45. Displaying variables and metadata
46. Bitbake debug output
47. Developer shell
48. Troubleshooting the build failures and fix it accordingly

DAY 3

26 topics

49. Yocto meta layers
50. Introduction to Yocto Layers
51. Create a generic meta layer
52. Introduction to BSP layer, Source code walk through of bsp layer for the platforms
53. Creating custom BSP layer and Adding a new machine
54. Linux BSP Layer components like bootloader & Kernel
55. Hands on
56. Creating a meta layer and including it in the Yocto Project
57. Adding the support for the new machine target
58. Universal Boot loader (U-Boot)
59. Brief introduction about U-Boot
60. U-Boot configuration, building & flashing
61. Brief introuction about the uboot configuration file and sources
62. Adding a command command in the uboot
63. Patching the u-boot
64. Linux Kernel
65. Brief introduction about the the Linux Kernel
66. Kernel Configuration building and updating
67. Brief introduction about recipes-kernel in BSP layer
68. Appending, Extending the recipe-kernel in BSP layer
69. Using the default configuration for kernel building
70. Patching, updating the kernel configuration files and sources
71. Making the kernel configuration changes & testing the same
72. Creating the configuration fragments and applying the same
73. Making the kernel changes

74. Creating & applying the kernel patches with Yocto

DAY 4 21 topics

75. Device Tree
76. Basics of Device Tree, Device Tree Source (dts) and Device tree compiler
77. Device Tree Nodes
78. Adding, Modifying the existing kernel device tree
79. Hands on
80. Making the changes in the device tree and applying the patch
81. Device Drivers
82. Basics of Linux Device Drivers / Kernel Modules
83. Linux Kernel Module
84. Building out of tree kernel module
85. Adding the devices drivers in the kernel and applying the patches
86. Linux Root Filesystem
87. Need for Root Filesytem
88. What is Root Filesystem?
89. Adding the Packages in Filesystem
90. Customized package selection and configuration
91. Root Filesystem post processing
92. Init Managers - Sysv Init and Systemd
93. Custom Root Filesystem image creation with selected packages
94. Adding, removing the application packages from Root Filesystem
95. Adding custom SysV service startup on system bootup

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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