DevOpsSchool

Course curriculum · November 2026

LINUX SYSADMIN (LFCS) · TRAINING PROGRAM

Linux device driver Training

A practical, hands-on Linux device driver Training curriculum: 40 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	40 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/linux/linux-device-driver.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 Linux device driver 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 · 40 TOPICS OVER 3 DAYS

Day 1

11 topics · Session 1: Low Level I2C Driver

Day 2

16 topics · Session 3: Linux Device Model

Day 3

13 topics · Session 5: Integrating low level driver with framework

AGENDA · 40 TOPICS OVER 3 DAYS

Linux device driver Training agenda

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

DAY 1

11 topics

1. Session 1: Low Level I2C Driver
2. I2C Protocol overview
3. Understanding the AM335x specific I2C registers
4. Understanding the flow for transferring the single byte
5. Excercises
6. Writing a framework independent I2C controller driver
7. Develop the logic for transferring a single bytes on the I2C bus
8. Sending the multiple bytes over the I2C bus
9. Interfacing with EEPROM
10. Enhance the driver to Transfer the multiple bytes
11. Enhance the driver to perform read & write operations on EEPROM

DAY 2

16 topics

12. Session 3: Linux Device Model
13. Linux Device Model & its goals
14. Support for non enumerable devices
15. Need for Platform Drivers & Devices
16. Transitioning from Platform device to the DTB
17. Excercises
18. Write a platform Driver & Device
19. Enhance the driver to add the support for platform driver
20. Enhance the driver to use DTB
21. Session 4: Linux I2C Framework
22. Understanding the Linux I2C Framework - I2C Adapter, Client and Algorithm
23. Understanding the Interconnection between the different Framework components
24. Understanding the Adapter and Client registration and probe flow
25. Writing a dummy I2C Adapter and Client driver
26. Writing a dummy Adapter and Client driver
27. Add the node for dummy Adapter & Client in DTB

DAY 3

13 topics

28. Session 5: Integrating low level driver with framework
29. Integrating platform specific controller driver
30. Integrating the EEPROM client driver
31. Excercises

32. Making suitable enteries in DTB for adapter & client driver
33. Integrating the low level driver with I2C framework
34. Integrating the Client and Adapter with Device tree framework
35. Session 6: Enchancing the Low level driver with Interrupts
36. Understanding the need for interrupts
37. Understanding the need for hardware FIFO
38. Registering & Handling the Hardware interrupts
39. Handling the data in bottom halves
40. Integrate ISR & the bottom halaves

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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