THE LEARNING STAGE
WHERE YOUR SKILLS REALLY MATTER

PROGRAM CURRICULUM · 2 MONTHS

Electric Vehicle Design

Explore the engineering behind electric and hybrid vehicles — from battery packs and motors to the control systems that tie them together — with hands-on design exercises and mentors from the field.

DURATION
2 months · Training + Internship

FORMAT
Mentor-led + full LMS access

PROJECTS
5+ live, deployed projects

CERTIFICATE
Verifiable on completion

Program overview

Explore the engineering behind electric and hybrid vehicles — from battery packs and motors to the control systems that tie them together — with hands-on design exercises and mentors from the field.

How the two months work

MONTH 1 · TRAINING

Learn by building

Hands-on, mentor-led sessions. You work through the curriculum and build the core project.

MONTH 2 · INTERNSHIP

Apply it on real work

You apply it on real work, reviewed by the same mentors, and finish with something you can show.

Who it's for & prerequisites

WHO SHOULD JOIN

- Students & early-career builders — any branch (Mechanical ideal)
- Understand EV powertrains, battery systems and regenerative braking.
- Anyone who wants job-ready, portfolio-backed skills

PREREQUISITES

- **Beginner-friendly** — starts from fundamentals
- No prior experience required; basic laptop comfort helps
- A laptop, internet, and time to practise between sessions

The skills you'll walk away with

EV Powertrains | Battery Systems | Regen & Control | Safety & Range

Exact libraries and tools are kept current and beginner-friendly; the concepts transfer across the field.

What you'll master

EV Powertrains	How motors and drivetrains deliver power.
Battery Systems	Cells, packs and battery management.
Regen & Control	Regenerative braking and control logic.
Safety & Range	Thermal, safety and range considerations.

By the end, you will be able to

- **EV Powertrains** — How motors and drivetrains deliver power.
- **Battery Systems** — Cells, packs and battery management.
- **Regen & Control** — Regenerative braking and control logic.
- **Safety & Range** — Thermal, safety and range considerations.
- Finish with **5+ portfolio projects** and a capstone you can show in interviews

Training curriculum — topics & what you'll do

Hands-on, mentor-led sessions. You work through the curriculum and build the core project. Lesson counts are shown per module; your mentor keeps the pace friendly for every level.

1 EV Fundamentals

6 lessons

- EV vs ICE architecture
- Motors and drivetrains
- Energy and efficiency
- Design exercise

2 Batteries & BMS

6 lessons

- Cell chemistry and packs
- Battery management systems
- Thermal management
- Sizing a pack

3 Control & Capstone

5 lessons

- Regenerative braking
- Control strategy
- Safety standards
- Capstone design

Month 2 — the internship

Real work, same mentors, something to show

With the training behind you, month 2 puts your skills to work on real, scoped tasks. The same mentors who taught you now review your work — and you finish with a shippable project and a verifiable certificate tied to it.

YOU DO

Apply your skills on real, guided work.

MENTORS DO

Review your work regularly and unblock you.

YOU FINISH WITH

A project you can show and a certificate you can verify.

Projects you'll build

Hands-on builds across the program — each one portfolio-ready. Your capstone ties it all together.

Battery Pack Sizing

Work out how big a battery a vehicle needs to hit a target range.

EV Design · CAD · Spreadsheets

Powertrain Model

Model how the motor and drivetrain deliver power to the wheels.

Simulation · Modelling

Regen Strategy

Design how the vehicle recovers energy while braking.

Control · Analysis

Thermal Model

Study how a battery pack heats up and plan a way to cool it.

Simulation · Analysis

Charging System Study

Compare charging approaches and the trade-offs between them.

EV Systems · Analysis

Your tools & tech

EV Design | CAD | Spreadsheets | Simulation | Modelling | Control | Analysis | EV Systems

These are the core tools you'll use across the projects. Your mentor confirms the exact versions on day one.

What you'll need

BRING

- A laptop (4 GB RAM or more) and its charger
- A stable internet connection
- A few hours to practise between sessions

PROVIDED

- Full LMS access & starter files
- Mentor support throughout
- A verifiable certificate on completion

Getting set up

Everything you need is free or provided. Your mentor shares the exact tools to install and any starter files in your welcome email — so you're ready from day one, with nothing to buy.

Reserve your place

Confirm your seat today with the registration fee. It holds your place and counts towards your program fee.

Registration fee

reserves your seat

Pay the one-time **registration fee** to lock in your place. It counts towards your program fee — not an extra charge — and the balance is confirmed when you enrol. Payments are secure, and your seat is booked the moment it clears.

Choose your plan

Core

The full two months, training and internship.

- Month 1 — full training curriculum
- Month 2 — internship on real work
- Verifiable certificate

Pro POPULAR

The same two months, with more mentor time.

- Everything in Core
- Extended mentor sessions
- Project review before demo

Your certificate

A verifiable certificate of completion

Finish the program and you receive a certificate tied to the projects you built and their live links — independently checkable at **thelearningstage.in/verify**, so it holds up when a recruiter looks it up.

Enrol in five steps

1. Visit **thelearningstage.in** and open the **Electric Vehicle Design** program.
2. Choose your plan — **Core** or **Pro**.
3. Confirm your seat with the **registration fee** — it counts towards your program fee.
4. Get your welcome email with **LMS access** and your start date.
5. Join Month 1 training, then move into your Month 2 internship.

Eligibility

OPEN TO

- Students & early-career builders — any branch (Mechanical ideal)
- No prior experience required

YOU'LL NEED

- A laptop and reliable internet
- A few hours to practise between sessions

Companies hiring for these skills

ATHER · OLA ELECTRIC · TATA MOTORS · Mahindra · Bosch · TVS · SIMPLE · Exponent

These employers actively hire for skills like the ones this program builds — a signal of demand, not partners of The Learning Stage and not a placement guarantee. The program gives you the shippable skills and portfolio that make you a stronger candidate.

Frequently asked questions

Is this a mechanical or electrical program?

It's a systems view — you'll touch both the mechanical and electrical sides of an EV, which is how the industry actually works.

Do I need CAD experience?

Helpful but not required; we cover what you need for the design exercises.

Will I receive a certificate?

Yes — a verifiable certificate tied to your capstone design.

Which companies hire for this?

EV makers and their suppliers are hiring aggressively — the logos shown are examples of employers active in this space.

Ready to start? 🚀

Two months from now, you could have real, shippable skills, a portfolio of projects, and a certificate to prove it. Come learn the way real teams work.

Enrol at thelearningstage.in · support@thelearningstage.in · +91 96527 16677

Curriculum is indicative and may be refined to suit the cohort. Fees and plans current at time of print. © 2026 The Learning Stage.