



Getting Started with Lectec

Quick-StartGuide + Teaching Playbook for STEM & CTE

Welcome — You're Exactly Where You Should Be

If you're holding a Lectec kit for the first time, here's the most important thing to know:

- You do not need to be an EV expert, master mechanic, or electrical engineer to run a successful Lectec classroom.
- Lectec was designed for teachers who are great facilitators of learning — people who can guide problem-solving and hands-on projects.

This guide is a hybrid:

- Quick Start — what to do first, without overthinking it
- Teaching Playbook — how to run Lectec confidently once students are building

You can skim it, follow it step-by-step, or come back to sections as needed.

The Lectec Learning Flow

Build → Ride → Learn → Expand

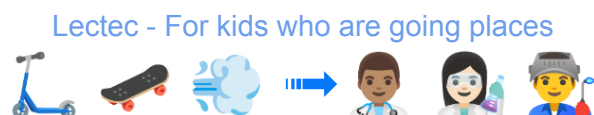
Before You Teach: Your Setup Checklist

0. Access Your Account (5 minutes)

You should have received an email from learn@lectec.com with a link to set up your password.

- Check your spam or junk folder if you don't see it
- Set your password
- Log in to Lectec Academy at learn.lectec.com using your email and password

This is where you'll find your professional development (PD) and curriculum.





0a. Student Access

- In Lectec Academy go to **Manage Classroom** (top right) to get the code that students will use to login to Lectec Academy.
- A PD video covering this is in **How to Teach Lectec - Lectec Academy**.

1. Complete the PD — Before Students Touch a Kit

Before teaching with Lectec, you should:

- Watch the PD videos
- Review the curriculum structure and pacing guidance
- Note safety expectations and classroom norms

The PD is designed to give you confidence, not overwhelm you. You don't need to memorize anything.

2. Build It Yourself First

Set aside time to:

- Build your skateboard or scooter
- Power it on
- Ride it

This does three important things:

- Helps you anticipate student questions
- Builds trust in the system
- Makes classroom facilitation easier

3. Review the Lessons

After your build:

- Read through the lessons you plan to teach
- Identify natural pause points
- Decide where you'll let students struggle productively
- You are not expected to teach every lesson.
- Notice that there are student and teacher versions for each lesson

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4. If You Purchased Add-On Modules

If your program includes add-ons:

- Watch the related tutorials
- Connect the modules to your personal electric vehicle (PEV)
- Confirm functionality before introducing them to students

Add-ons are best introduced after students build, ride, and learn.

5. Get Comfortable with VESC®

Before teaching, you should:

- Connect your PEV to the VESC® dashboard
- Explore the interface
- Learn how to capture data
- Practice reading and analyzing that data

PART 1: QUICK START

1. Before You Open the Box (5 minutes)

Set expectations — for yourself.

- This is a hands-on, problem-based program, not a scripted demo.
- Students will ask questions you don't immediately answer.
- Your role is facilitator, safety lead, and guide.

Time reality check:

- First build typically takes 1.5–3 hours or 3–6 class periods, depending on class length and depth.
- You don't need to finish everything in one go.

2. Unboxing & Inventory (15–20 minutes)

Lectec kits arrive as complete systems — components, hardware, tools, and reusable storage.

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- Recommended approach: Unbox one kit fully before involving students.
- Notice the foam cutouts and how everything has a home. This makes teardown and reuse simple.
- You do NOT need to inventory every bolt, pre-assemble anything, or sort parts into new containers.

3. Safety First (Before Anyone Rides)

Before instruction continues:

- Complete the [Waiver of Liability Link Generator form](#)
- Capture the generated link
- Email the link to students' parents/guardians for digital signatures

This step is essential for your protection, your school's protection, and your district's protection.

Classroom safety foundations:

- Review PPE expectations
- Establish lab/shop norms
- Be explicit about when riding is allowed vs. build-only days

4. Where to Start in the Curriculum

- **CTE lessons:** Best completed in order, especially the first five lessons.
- **STEM lessons:** Can be taught in any order; focus on projects or topics relevant to your class.

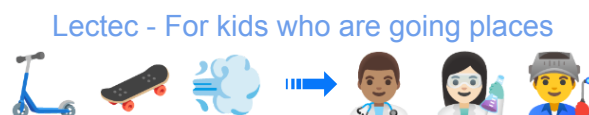
Accessing lessons:

- Lessons are online and available as downloadable PDFs in Lectec Academy
- Teacher and student versions available
- PDFs work for printing or reference; Word versions can be requested for LMS upload

PART 2: BUILD

5. Structuring the Classroom

Recommended group size: 1–3 students per kit





- Smaller groups increase hands-on time, accountability, and skill development.

Optional rotating roles:

- Builder / Assembler
- Tool & Parts Manager
- Documentation Lead

6. Pacing the First Build

Using the Assembly Tutorial, decide how students will move through the build:

- **Independent group builds:** Teams work at their own pace.
- **Classroom build:** All students build at the same pace; you can pause to explain components.

Checkpoints:

- Refer to PD for assembly checkpoints; improper assembly affects safety and performance.
- Mark checkpoint moments and plan for group verification.

Time expectations:

- Typical build: 1.5–3 hours uninterrupted.
- Classroom builds with instruction and discussion will take longer.

PART 3: RIDE

7. Riding Day: Safety Comes First

Before students ride:

- Watch the Safety video
- Confirm all waivers are signed
- Require helmets and pads

Environment:

- Safe, open space with no obstacles
- Limit riders for supervision

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Student support:

- Encourage peer support
 - Allow holding or sitting on the board if needed
 - Begin all students at Level 1 (~3 mph) and progress gradually up to Level 4 (~8 mph)
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PART 4: LEARN

After students have ridden, transition into learning:

- A fun place to start is the **PEV Education activity** in Lectec Academy
 - Optional: Download the Extension Activity handout (Lesson 2) to turn this activity into a deeper learning experience
 - STEM lessons can be selected based on interest; CTE lessons should follow the sequential approach initially
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PART 5: EXPAND — ADD-ON MODULES

- Introduce add-ons after students have completed the core build and learning activities.
- Connect modules, test functionality, and teach intentionally, one at a time.
- Students can explore advanced systems, programming, sensors, control, and performance.

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