



LEGACY
EV



From Spark to Skill:

WHY SCHOOLS ARE PLUGGING INTO EV EDUCATION

**WHY TEACHING EVS (AND OTHER TRADES) IS
MORE IMPORTANT THAN EVER.**



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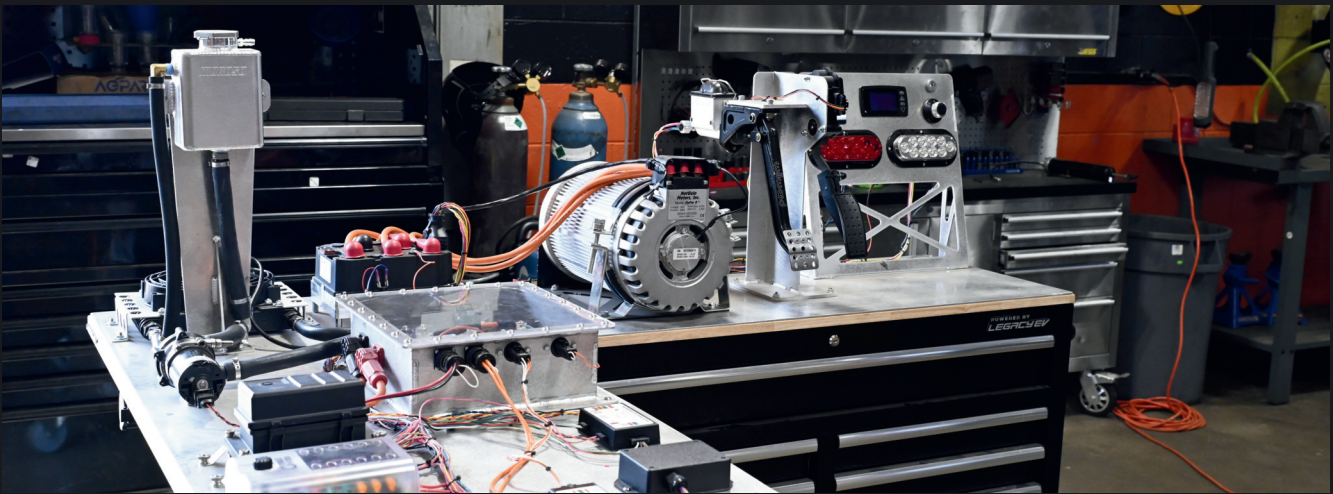
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1. The Spark	Why cars captivate us and how car culture can ignite student curiosity.
2. The Disconnect and the Opportunity	Students already live in an electric world—e-bikes, scooters, Teslas—but many schools haven't yet connected that reality to hands-on education.
3. AI Is Reshaping Work—and Hands-On Skills Are the Future	Automation is transforming digital jobs while skilled, tactile careers are rising in value.
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Real-world examples and testimonials of schools transforming STEM engagement through EV learning.

8. The Call to Action: Plug Into the Future

Clear next steps for educators and administrators.



Legacy EV's proprietary 100V training bench is making it simple for schools to adopt EV education into existing programs.



Young STEM students in Beaumont, TX take interest in high voltage learning from Legacy EV.



Educators from across the Globe training at Legacy EV headquarters.

1 | THE SPARK

Cars have always stirred emotion. They cut across age, geography, and culture, connecting people who may not agree on much else. Even those who claim not to be “car people” still turn their heads when something sleek and powerful rolls by.

From Top Gear and Fast & Furious to the YouTube dynasties of Donut Media, Gas Monkey Garage, and now BigTime, car culture has never been stronger. Online, car videos consistently rank among the most-watched genres, pulling in audiences of every age. Why? Because building, tuning, and driving cars taps into something universal: the joy of creating, solving problems, and seeing the results of your work come to life.

It’s creativity fused with math, physics, and art. It’s craftsmanship, curiosity, and speed all rolled together.

Now, that world is changing faster than ever. New electric brands are emerging each year. Long-time giants like GM, Ford, and Honda are racing to electrify their fleets. EVs have moved from niche to normal—faster, quieter, cleaner, packed with cutting-edge tech. It’s not just an evolution of cars; it’s an industrial and technological revolution in real time.

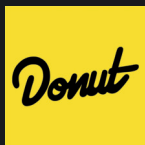
And students see it everywhere.

FROM SPARK

THE STUDENTS ARE ALREADY ENGAGING IN CAR CULTURE

Automotive content generates 100M+ monthly impressions!

Source: YouTube Analytics / Wikipedia.



9.2M subscribers



1.8M subscribers in first year



25%

25% of all gamers are between the ages of 10 and 20 and racing and car-centric games are among the most played by Gen Z.

Source: newzoo

“

THE U.S. FACES A SHORTAGE OF 35,000 ADDITIONAL EV TECHNICIANS BY 2028.

- EE POWER

Neighborhoods are full of kids zipping by on e-bikes and scooters. Parents charge their cars in driveways. Students are surrounded by electric mobility long before they ever take a physics class.

Cars have always been fun. They've always been the hook. So why not use that excitement to spark something bigger?

EV education brings that thrill into the classroom. It takes the curiosity that cars ignite and connects it to science, engineering, and design. Whether students dream of building cars, designing software, or just want to understand how things work, cars can be the entry point that makes STEM and CTE exciting, relevant, and real.

TO SKILL

ACCESSIBLE PROGRAMS FOR STUDENTS OF ALL AGES

Legacy EV offers turnkey curriculum and lab equipment for schools and learners of all ages.



2 | THE DISCONNECT AND THE OPPORTUNITY

Young people already live in an electric world. They understand power, speed, and design because they see it daily, but they don't always see it in the classroom.

While electric vehicles and e-mobility have become part of everyday life, most schools haven't yet found a way to teach what's happening outside their doors. Not because they're behind, but because the tools and curriculum to teach modern electric systems have only recently become available.

That's where EV education comes in. It doesn't replace existing STEM or CTE programs. It builds on them. It gives schools a modern, high-interest context for skills they already teach: circuits, energy, design, and safety.

Students who might tune out during a lecture on voltage light up when they can wire a battery that powers a motor. The excitement of movement turns abstract ideas into tangible understanding.

Cars have always represented possibility. Bringing them into STEM gives teachers a way to show that possibility in motion.

“

**WE DIDN'T NEED TO
OVERHAUL OUR
EXISTING
PROGRAM. WE
COULD JUST PLUG
THIS IN!”**

FROM SPARK

KIDS ARE SURROUNDED BY ELECTRIC TRANSPORTATION

Whether it's e-bikes, cybertrucks, or autonomous vehicles, your students are already enamored with this technology.



Suburban neighborhoods are full of kids riding e-bikes.



Teslas and other EVs are the most desired cars by young students.



The future is already here with self-driving services like Waymo.

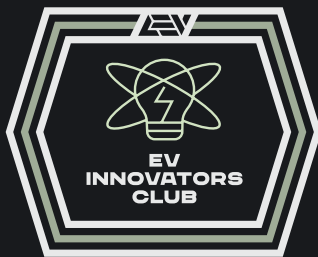


Teachers at BISD in Beaumont, TX train on the Intro to E-Mobility kart

TO SKILL

EV INNOVATORS CLUB AND INTRO TO E-MOBILITY

Foundational and introductory courses to



Engage Early Learners

Designed to spark curiosity, this program uses an electric go-kart kit to teach STEM through hands-on learning. Students explore energy, physics, and engineering while safely building and riding their own EV.



Build Foundational Skills

Launch students into EV technology through a hands-on experience building and tuning an electric go-kart powered by a custom Legacy EV battery system. Students gain foundational skills in wiring, safety, and EV performance analysis while learning to troubleshoot and optimize an electric powertrain.

3 | AI IS RESHAPING WORK—AND HANDS-ON SKILLS ARE THE FUTURE

Artificial intelligence is changing the way the world works, and it's making human, hands-on skills more valuable than ever.

Research shows that roughly **25 percent of U.S. jobs could be highly transformed by AI** ([EDNC, 2024](#)). Early-career employment in heavily automated sectors has already dropped about 6 percent since 2022 ([ADP Research, 2025](#)). But in skilled, technical, and trades-based work that require dexterity, troubleshooting, and creativity, employment has stayed strong.

Cars, and now EVs, represent exactly that kind of work: physical, technical, and full of human judgment. Servicing a high-voltage drivetrain or diagnosing a battery system isn't just another assignment, it's applied problem-solving that can't be automated away.

As AI takes over repetitive digital tasks, industries will keep looking for people who can build, fix, and create. EV education trains students for that world.

FROM SPARK

HANDS-ON, TECHNICAL JOBS ARE GROWING FAST

In a complete reversal from the tech boom, the jobs that will be stable and in-demand are in the skilled labor sector.

25% OF U.S. JOBS WILL BE DISRUPTED BY AI.
ednc.org/pwc

HIGH AI EXPOSURE

(software, admin, customer support, etc...)

 **-6%**

LOW AI EXPOSURE

(mechanics, technicians, trades, etc...)

 **+3%**

ADP Research, 2025

TO SKILL

LOWERING THE BARRIER OF ENTRY

Starting an EV program from scratch has never been easier. Legacy EV offers the turnkey curriculum as well as the equipment to get you going.



Develop Technical Expertise

Give students hands-on experience with a professional 100V training bench to teach wiring, programming, diagnostics, and system commissioning. Ideal for semester or year-long programs, it prepares students for technician-level roles in the growing EV industry.



Gas-to-Electric Repower

Engaging project-based curriculum that promotes sustainability by turning gas vehicles into electric. Students will restore a classic hot rod and gain hands-on EV Industry experience using our tailored conversion kit with OEM safety features and programmable controllers.

4 | THE INDUSTRY IS SHIFTING – AND CLASSROOMS CAN KEEP UP

Electric vehicles are no longer futuristic—they're mainstream. The 2024 U.S. Energy & Employment Report found that **battery-electric-vehicle employment grew 12.9 percent year-over-year**, far outpacing all other automotive segments ([DOE, 2024](#)).

This surge is creating tens of thousands of new, well-paying jobs—from technicians and engineers to charging-infrastructure installers and battery-system specialists. The average EV technician earns \$60,000–\$70,000, with many roles higher ([Astute People, 2024](#)).

Schools don't need to reinvent their programs to prepare students for this opportunity.

The same core competencies—electronics, diagnostics, safety, and design—are the foundation of EV systems. What's new is the context, and that context is exciting.

For students, it's not about memorizing components. It's about connecting science and math to the machines they see, hear, and love.

FROM SPARK

THE EV INDUSTRY IS EXPLODING

High-paying jobs await and students are noticing opportunities that simply didn't exist five years ago.

2030

TENS OF THOUSANDS
OF JOBS BY 2030

\$70K

AVG ANNUAL SALARY

[Astute People, 2024](#)

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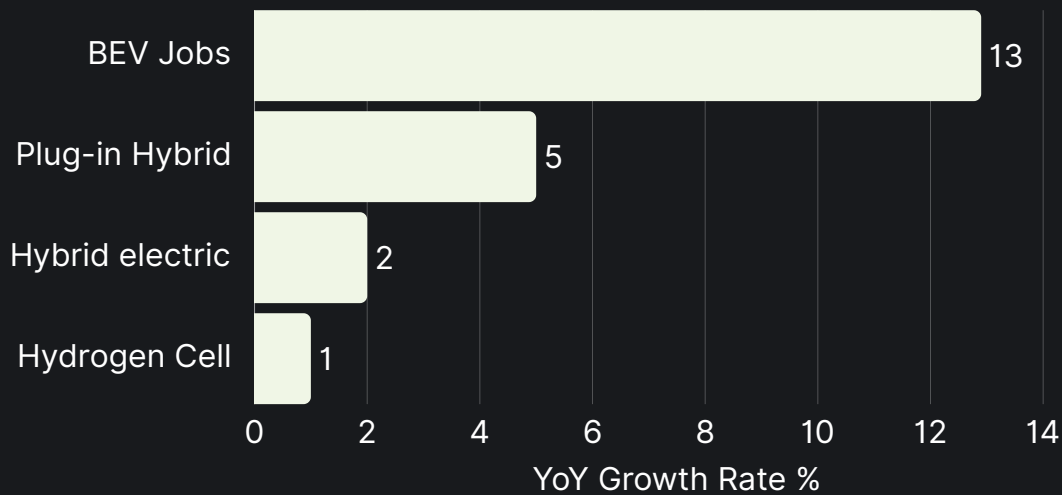
WE ARE IN TROUBLE IN OUR COUNTRY...WE HAVE OVER A MILLION OPENINGS IN CRITICAL JOBS, EMERGENCY SERVICES, TRUCKING, FACTORY WORKERS, PLUMBERS, ELECTRICIANS, AND TRADESMEN. IT'S A VERY SERIOUS THING.

**- JIM FARLEY
FORD CEO**

TO SKILL

JOB GROWTH RATES

By learning future-proof and differentiated skill sets, breaking into the automotive industry can be easier than ever.



5 | THE ULTIMATE STEM GATEWAY

When students wire a motor or calculate torque, they're not just completing a lesson—they're building something that moves. That's the magic of EV education.

It transforms theory into action. Circuits become wheels turning. Equations become acceleration. It's science you can feel.

Cars already hold students' attention. EV projects let teachers leverage that natural excitement to teach physics, math, chemistry, and coding in one integrated experience. Start small with low-voltage kits or a single go-kart. As programs grow, add advanced modules on diagnostics and high-voltage safety.

Each step deepens engagement and proves that STEM can be every bit as thrilling as the industries it fuels.



Students build balloon powered cars as part of an energy lesson within EV Innovators Club.

FROM SPARK

STEM THAT MOVES

STEM doesn't always sound exciting to every student. But when you bring in speed, torque, and the thrill of cars, suddenly science isn't abstract anymore. It's powerful, fast, and fun.



Learning on a purpose-built go kart provides safe, introductory, and engaging opportunities that translate directly to more sophisticated EV systems.

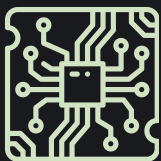


Students gather around an EV Innovators kart as the instructor shows them the wiring controller

TO SKILL

EV TECH IS THE ULTIMATE LEARNING CONDUIT

Leveraging EVs as the hook for STEM and CTE ensures that other transferable skills are learned along the way.



CIRCUITS
ELECTRICAL
SYSTEMS



EQUATIONS
APPLIED MATH



DATA LOGGING
DIAGNOSTICS



ENERGY
FLOW/TRANSFER



TORQUE & MECHANICS
MECHANICAL
SYSTEMS

6 | SCHOOLS ARE CLOSING THE GAP

Educators recognize that the world is changing quickly; many just need a clear way to connect classroom learning with modern technology.

Until recently, EV curriculum and teacher training were hard to find. Safety standards were confusing. Equipment was expensive. Funding seemed uncertain. Now those barriers are disappearing.

Hundreds of schools and thousands of students across the country are already participating in EV programs that fit directly into existing STEM and CTE pathways. Teachers receive professional development, students get real hands-on experience, and schools gain a direct connection to an expanding industry.

Cars have always symbolized progress. In classrooms, they can symbolize potential—the idea that learning something technical and tangible opens doors to the future.

CLEMSON

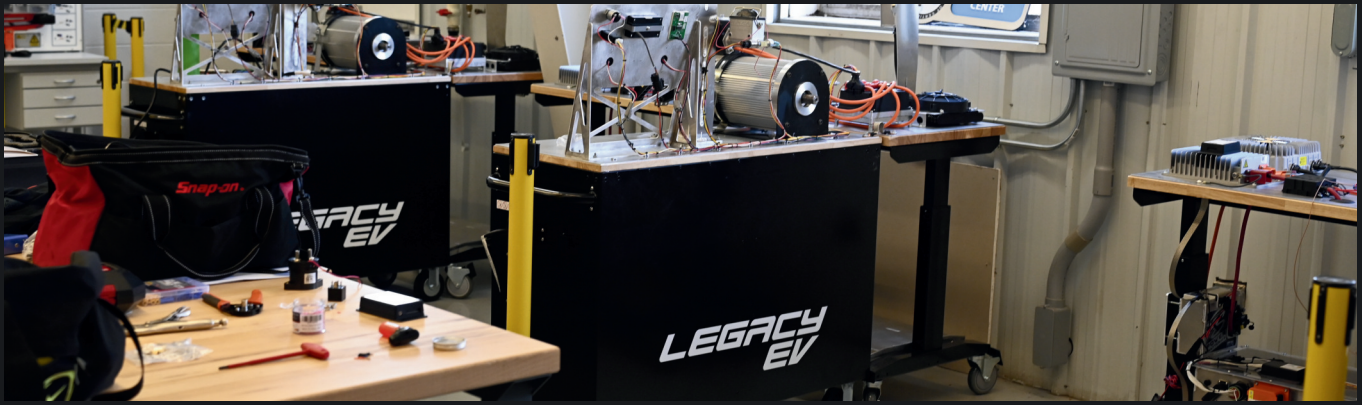


FROM SPARK

SCHOOLS ACROSS THE COUNTRY ARE ALREADY MOVING.

Early adopters are proving that EV education boosts engagement, improves STEM outcomes, and builds real pathways to skilled careers.





TO SKILL

MEET THE 100V TRAINING BENCH

Learning the ins and outs of an EV power train is easier than ever on Legacy EV's 100V training bench. Brand agnostic parts are made visible which translates to easier instruction and higher knowledge retention.

CURRICULUM AND TEACHER TRAINING

Legacy EV's curriculum and teacher training make it simple for any school to join this momentum and integrate EV learning into existing programs.



7 | THE MOVEMENT HAS **BEGUN**

The spark of EV education didn't stay contained for long. What began as curiosity in a few classrooms has grown into a nationwide movement powered by teachers, students, and communities who want learning to feel meaningful again.

Across the country, schools are discovering the same thing: when you bring electric vehicles into STEM and CTE programs, students show up differently. They lean in. They ask questions. They treat science like something they can use, not something they have to memorize.

In one district, a simple go-kart build became the heartbeat of the physics program, drawing students who had never considered themselves "STEM kids." In another, a high school added Intro to E-Mobility after realizing how

many students were already interested in EV technology through scooters, bikes, and social media.

This momentum is what fuels the rapid expansion of EV learning today. The map now spans hundreds of schools and thousands of learners, each one proving that students don't need convincing—they just need access.

Cars have always been the spark. EV education is now the pathway that turns that spark into possibility, and possibility into purpose.

FROM SPARK



Founders Mavrick Knoles (left), a former STEM teacher, and Rob Ward (right), a commercial electrician and car enthusiast.

LEGACY EV BEGAN WITH A SIMPLE IDEA:

What started as a small idea—bringing EV technology into a handful of classrooms—has grown into a movement touching schools across the country and around the world. Students who once felt disconnected from STEM now see a place for themselves in the industries of the future.

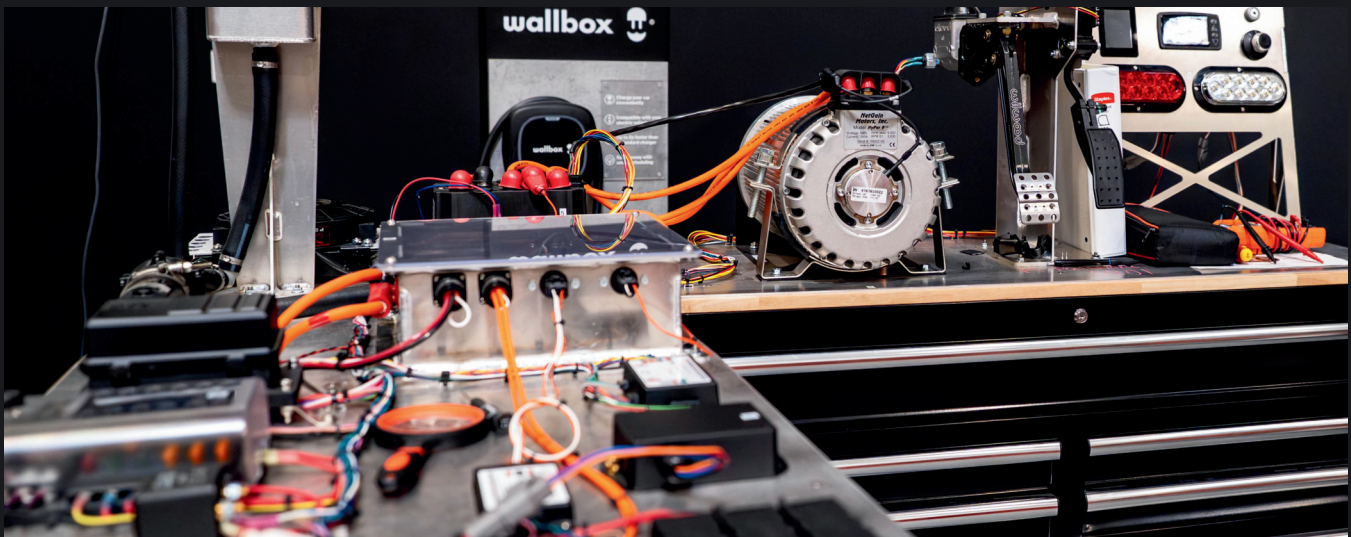
TO SKILL

LEGACY EV'S CURRICULUM IS CHANGING LIVES WORLDWIDE

Legacy EV's curriculum and national teacher training network has been deployed across the globe give schools and individuals everything they need to join this movement.



Legacy EV's curriculum and trainings have been deployed across the globe, impacting thousands of individuals.



Schools across the globe are already leveraging the 100V training bench as part of the EV Tech curriculum.

8 | PLUG INTO THE FUTURE

The EV revolution is here. Industry is charging ahead. Students are ready. All that's left is for schools to connect the dots.

You don't need a new building or a huge grant to begin. You just need the spark and a way to link your existing STEM or CTE curriculum to the most exciting technology of our time.

EV education captures the thrill that cars naturally create and channels it into real-world skills. It prepares students not only for automotive careers, but for any future that values creativity, technical skill, and hands-on problem-solving.

Your students already feel the excitement. Now help them turn it into expertise.

“

“IF YOUR STUDENTS ARE EXCITED ABOUT TECHNOLOGY, THEY’LL BE ELECTRIFIED BY THIS.”

FROM SPARK

STUDENTS EVERYWHERE ARE EXCITED ABOUT THE ELECTRIC FUTURE...

...but access isn't equal. Schools that take the lead can change a student's entire trajectory, as well as it's own.



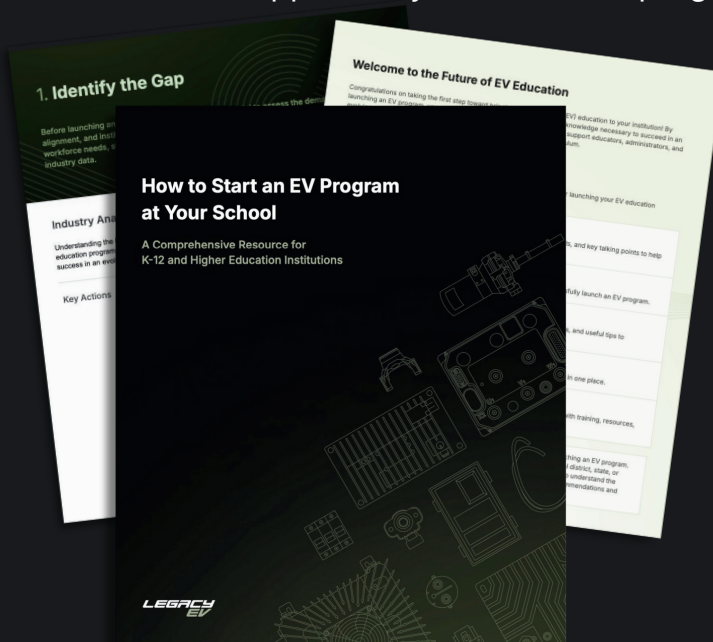


Instructors and learners from across the globe come to Legacy EV headquarters to get fully EV certified.

TO SKILL

HOW TO START AN EV PROGRAM

The How to Start an EV Program guide gives schools everything they need to turn excitement into opportunity and launch a program that truly changes lives.



GET THE GUIDE

Scan or Click to Get the Guide

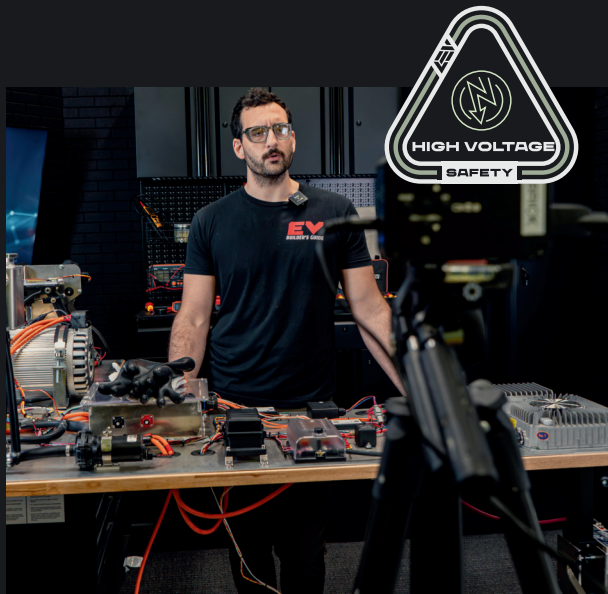
We don't just talk the talk.

WE WALK THE WALK.

Legacy EV is also a leading R&D and gas-to-electric conversion shop that tests products, builds vehicles, trains professionals, and pushes the EV industry forward.



From gas to electric. This 1968 C10 is one of dozens of vehicles that Legacy EV has converted to. These conversions not only draw huge attention from car enthusiasts, but serve as training modules and research opportunities.



In addition to the school-based curriculum, Legacy EV supports online safety trainings for working professionals, as well as a monthly, week-long bootcamp at its Gilbert, AZ headquarters.



In November of 2025 Legacy EV trained dozens of technicians in Guyana as part of the UN's "Just Energy Transition"



As a main sponsor of the Battery Workforce Challenge, Legacy EV provides subsidized safety training to all participants.

KEY PARTNERSHIPS INCLUDE:



U.S. DEPARTMENT
of ENERGY



EV INNOVATORS CLUB

Engage Early Learners

Designed to spark curiosity, this program uses an electric go-kart kit to teach STEM through hands-on learning. Students explore energy, physics, and engineering while safely building and riding their own EV.

Target Demographic

Middle school STEM and entry-level CTE programs



- 01 Experience the basics of EV powertrains through a hands-on go-kart build
- 02 Explore energy flow, electrical power, and mechanical systems
- 03 Connect STEM concepts to real-world clean transportation

Training Aids

Purpose-built electric go-kart kit with basic electrical tools and assembly components.

INTRO TO E-MOBILITY

Build Foundational Skills

Launch students into EV technology through a hands-on experience building and tuning an electric go-kart powered by a custom Legacy EV battery system. Students gain foundational skills in wiring, safety, and EV performance analysis while learning to troubleshoot and optimize an electric powertrain.

Target Demographic

High school automotive and electrical programs



- 01 Safely assemble and wire a 48V EV powertrain
- 02 Apply electrical theory to measure and analyze vehicle performance
- 03 Practice basic troubleshooting and preventive maintenance
- 04 High Voltage Safety L1 certification

Training Aids

Performance racing electric go-kart platform with Legacy EV battery system and electrical tool kit. Includes PPE.

EV TECH

Develop Technical Expertise

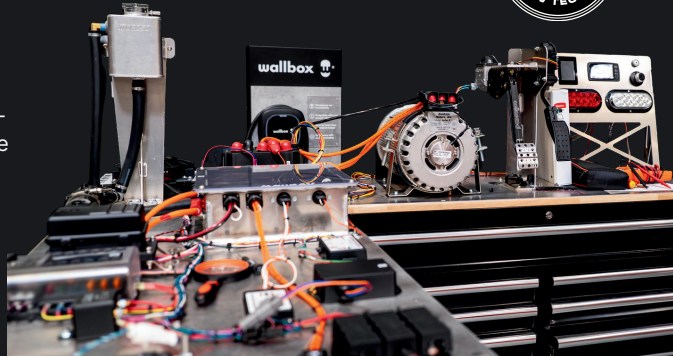
Give students hands-on experience with a professional 100V training bench to teach wiring, programming, diagnostics, and system commissioning. Ideal for semester or year-long programs, it prepares students for technician-level roles in the growing EV industry.



- 01 Wire, program, and commission a functional EV powertrain
- 02 Read and apply wiring diagrams and communication protocols
- 03 Diagnose electrical and communication faults using diagnostic tools
- 04 Level 1 and 2 HV Safety Certifications

Target Demographic

High school and post-secondary automotive technology programs



Training Aids

Professional-grade, product-agnostic 100V EV training bench with integrated motor, battery, controller, and diagnostic interface. Includes tools & PPE.

EV BUILD

Gas-to-Electric Repower

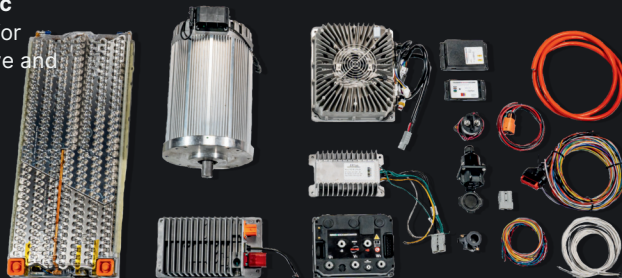
Engaging project-based curriculum that promotes sustainability by turning gas vehicles into electric. Students will restore a classic hot rod and gain hands-on EV Industry experience using our tailored conversion kit with OEM safety features and programmable controllers.



- 01 Configure and monitor a battery management system (BMS)
- 02 Assess system functionality, troubleshoot faults, and validate the overall performance
- 03 Design, install, and troubleshoot custom wiring harnesses, relays, and components
- 04 Program and tune motor controllers to optimize torque output, regenerative braking, and throttle response

Target Demographic

A capstone project for advanced automotive and engineering classes.



Training Aids

Custom EV conversion kit, OEM safety features and a programmable controller collection



LEGACY
EV

**CHAT
WITH AN
EDUCATION
SPECIALIST**



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