

Switch EV Trainer

All of the components of a modern EV drivetrain on a compact, insulated, mobile training platform.

The Switch EV Trainer offers an array of educational benefits, making it a powerful workforce development tool. Using a component-agnostic approach, the fully assembled Switch EV Trainer teaches how to wire, diagnose, and configure an EV while emphasizing low and high voltage safety procedures.

Educational Benefits

- Reusable & rebuildable design for use year after year
- Learn the purpose & functions of EV components
- ADA doorway compliant to teach from any classroom
- Space saving folding design with lock for security
- Demonstrate & practice high voltage safety procedures (OSHA/ASE)
- Teach fundamentals of electricity and how to use wiring diagrams
- Test students knowledge through troubleshooting challenges
- Configurable battery management system (BMS) & motor controller
- Real-time data interpretation from integrated CAN network
- Demonstrate the differences between types of EV chargers
- Exam preparation for ASE xEV level 1 & 2 certifications

Features

- Fully assembled, ready for immediate use
- Insulated, stand-alone rolling platform
- Tabletop workspace for a laptop or tools
- Two insulated drawers, fully removable to sit flat on a desk
- Flexible curriculum & training materials
- All components are visible and easily accessible
- Motor and batteries behind clear removable plastic for safety
- 72v Lithium Iron Phosphate (LFP) battery pack for safety & durability
- Hyper 9 motor with controller (configurable)
- Regenerative braking capability
- Orion2 Battery management system (configurable)
- Laptop and tablet display pre-configured
- Level 1 & 2 EV charger (J1772)
- Wiring looms for ease of troubleshooting lessons
- Professionally labeled and terminated wiring

- Spools of wire, terminations, and shrink tube for DIY lessons
- Access to Switch Vehicles community forum for educators
- Includes user manuals for all major components
- Components can be transferred to a vehicle under 2,000 lbs

Add-Ons

- Low & high voltage safety equipment (insulated tools, gloves, hook)
- Multi-meter
- Relay Lab kit with wiring crimper set

Technical Information

- Dimensions - 30"D x 37"W x 62"H (*opened*)
- Dimensions - 30"D x 37"W x 38"H (*closed*)
- 550 lbs
- ADA doorway compliant
- 110v or 220v outlet for charging (operates stand-alone)