



Prepare your students for the ASE L3 Test:

# **“LIGHT DUTY HYBRID/ ELECTRIC VEHICLE SPECIALIST”**



## YOUR ALL-IN-ONE SOLUTION – MASTER THE “ASE L3 TEST”



All topics related to the New ASE L3 test are now covered by our newest Hybrid/Electric vehicle trainer. We offer a blending of comprehensive curriculum with practical tasks to make sure your students have the competencies and system understanding needed to succeed in this emerging, highly technical market.

### Topics included in the curriculum

- Multiple types and operation of hybrid and electric vehicles
- Motor/generator operation with experiments and animations
- Battery management systems
- Drive systems
- Power electronics including inverters, DC to AC conversion and
- Safe handling of HV systems
- Internal combustion engines
- Instructor Fault Insertion included for trouble shooting the system

## PERFECT BLEND OF THEORY AND PRACTICE FOR COMPLETE SYSTEM UNDERSTANDING



### Practical tasks and experiments include:

- Isolation procedure and voltage measurement
- Measurements of real high voltage to understand electric motors
- Fault finding and diagnostics with real world faults such as insulation resistance measurement
- Resolver/motor positioner
- Energy flows in series, parallel, series-parallel, fuel cell and pure electric vehicles
- High voltage capacitors found in EVs
- Charging connections
- Integration of Tasks can even be done on existing vehicles if available

Allow your students to build confidence by knowing they can safely work on a state of the art real world system performing the procedures needed to work on hybrid/electric vehicles.







Partner of  SkillsUSA.



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