

CAVIT Electric Vehicle Program

Learning Standards

1. Define the components of an electric vehicle.
2. Determine optimum battery management.
3. Engage in and work with teams to solve problems.
4. Perform skills to test ideas and create solutions.
5. Analyze wiring diagrams to diagnose wiring failures.
6. Identify proper wire size for lengths and current draw.
7. Analyze electric faults and identify root cause of failure.
8. Identify vehicle use to a transportation requirement.
9. Perform energy use calculations and predict charge time of EV battery.
10. Analyze battery chemistry, transportation needs, and budget to make informed decisions.
11. Apply electric and electronic theory to EV design and construction, maintenance, safety, and repair.