EHS 0228: GEM Training for EHSS Personnel

Required steps to becoming authorized to drive an EHSS GEM electric vehicle:
1. Trainee reads the following policy and driving rules (page 1)
2. GEM custodian provides vehicle orientation (page 2 & 3)
3. Trainee receives course credit (page 4)

Traffic and Safety Regulations
- All California driving rules apply when operating a GEM vehicle; the driver must have a valid state-issued driver’s license. (NOTE: You can find the California Vehicle Code using Google Search on your computer).
- Driver should familiarize themselves with the owner’s manual.
- The driver and passenger must wear seatbelts whenever the vehicle is in motion.
- Never use a communication device such as a 2-way radio or cell phone while driving.
- Always use the parking brake whenever the vehicle is parked.
- Never smoke in any LBNL vehicle.
- EHSS GEM vehicles must remain onsite, within the main LBNL property; do not drive to UC Berkeley or any other offsite location.

Startup Tips
- Unplug the electrical cord properly and store the cord where it will be dry and undamaged.
- Check the batter charge level on your gauges.
- Perform a 360-degree walk-around of the vehicle and look for obvious problems (low tire inflation, etc.)
- Check the headlight, wiper and heater (as needed) to ensure they work before you travel.

Driving Tips
- Driving an electric vehicle is not like driving your personal vehicle; take time to familiarize yourself with the feel of manual steering, and electric power, which is not as gradual as a typical passenger vehicle.
- Use the LOW drive setting for normal driving and the HIGH drive setting when going uphill. Driving in HIGH will drain the battery faster.
- When parking, always engage the parking brake and curb the wheel. This is especially important when parking on a hill.
- Be sure to use the appropriate drive setting: do not ride brakes.

Care & Maintenance
- Never force the door handle or windows: unlatch the door handle with a gentle pull; unlatch the window by gently depressing the center tab.
- Never overload a GEM: the maximum carrying weight limit is indicated on a sticker on the ceiling above the driver’s seat.
- Plug the vehicle into the charger after each use. Make sure the plug is fully seated.
- Note: Facilities Fleet coordinates a 90-day maintenance schedule. Details are logged on a sticker above the driver’s seat.
Reporting Vehicle Problems

- Report any problems (maintenance, malfunction, damage) to the vehicle custodian immediately.
- Email fleet@lbl.gov with details or call Marylynn Wilkinson.
- Inform coworkers that the GEM is temporarily out of order and post a sign to communicate.
- The vehicle must be inspected and cleared by Facilities Fleet before use.
- If your vehicle breaks down park the vehicle in a safe place (if possible).
- Never repair or modify a GEM vehicle; contact Facilities Fleet if additional accessories are required.

GEM Vehicle Orientation (Orientation is discretionary, but encouraged if the operator does not have experience with the GEM. Driving test required for new operators.)

GEM Custodian / Trainer: Please review the following, resources include the owner’s manual and attachments.

1. Explain proper use of the vehicle’s key features (review operator manual):
   a. **Steering**: Of note: manual steering is more difficult than what you might be used to, and this vehicle has a wide turning circle
   b. **Power switch**: WARNING! Never turn the key to the OFF position while the vehicle is in motion. This could lead to loss of speed control and loss of vehicle control, which could result in serious injury or death. Leaving the key in the ON position will discharge the batteries. Always turn the key to the OFF position when not operating.
   c. **Driving modes**:
      i. High: 0-25 mph
      ii. Low: 0-15 mph
      iii. Reverse: Warning alert will sound
   d. **Brakes**: The foot brake is the pedal on the left and functions similarly to a regular brake pedal. The hand – or parking – brake is located to the right of the driver’s seat. Always apply the hand brake whenever the vehicle is parked.
   e. **Turn signal**: Must manually return to center position; alert will sound in 45 seconds.
   f. **Parking brake**: Always use when parked
   g. **Headlights and tail lights**: Single switch turns both on and off
   h. **Windshield wiper**: Push level toward console to activate
   i. **Fastening seat belts**: Make sure latch plate is pushed completely into buckle - click should be heard.
   j. **Opening/closing windows**: Use care; close at night
   k. **Charging the GEM**: Always maintain full change

2. Explain safety limits related to operating vehicle:
   a. Normal driving rules apply (stop signs, speed limits, etc.)
   b. How to park on inclines
      i. To curb wheels when parking on hill
      ii. To always use parking brake.
      iii. Use wheel blocks if available on steep inclines.
c. GEMs introduce visibility concerns and blind spots (rearview and side mirrors) when driving and backing up.

d. Maximum weight limit

e. Handling and vehicle response characteristics (turning, accelerating, braking, and backing up).

f. Reading and responding to meters and indicator lights – see figure from manual

3. Driving “test.”
   a. Accompany first time drivers to review operation and to allow driver to ask questions. A 5-10 minute test drive is all this is required.
EHS 0228: GEM Training Course Credit

Options for Getting Course Credit:

1. For CREDIT:
   a. Participants who completed the training can use the following link to login for course credit.
   
   b. Log in using LDAP and sign electronic acknowledgement

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