### MAKING CONNECTIONS, MAKING A DIFFERENCE

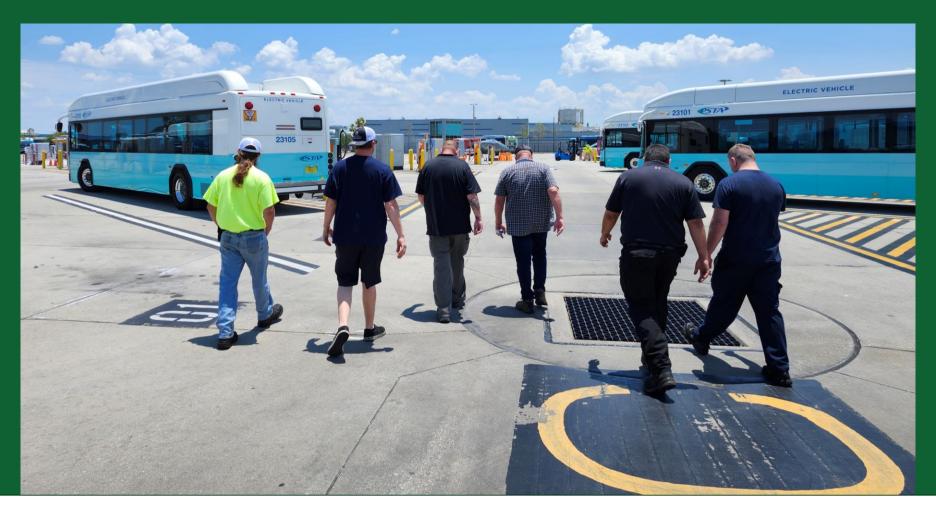


### Safety Briefing

- Note your location: Hilton Baltimore Inner Harbor, Floor 2.
- Identify your nearest exits.
- Automated system will alert attendees if we need to evacuate the building.
  - Use stairs, not elevators. Anyone unable to use the stairs will be assisted by fire department at the stairwell.
  - Our assembly point is Northwest Warehouse, 333 West Camden Street, just behind the Sports Legend Museum and adjacent to the ballpark.
- In the event of medical emergency, call 911 from a cell phone (if no cell phone, use house phone). Security (443-683-8801) will also assist. Hotel has qualified staff to perform first aid and operate CPR.
- To report emergencies to the hotel, dial 65 on a house phone.



## Zero In and Power Up: Resources for a Smooth Workforce Transition to Zero-Emission Vehicles





### **Q** Moderators



Jason Macumber
Senior Advisor for
Workforce Development
TWC



Brian Markey
Chief Executive Officer
Custom Training Aids Inc.



Brandon Liu
Instructional Designer
TWC





### Special Thanks to National Transit Institute (NTI)



Director National Transit Institute (NTI)



### **ZEB Workforce Transition Planning**





### Battery Electric Bus Fundamentals: Overview

Battery Electric Bus (BEB) Familiarization Course – Module 1



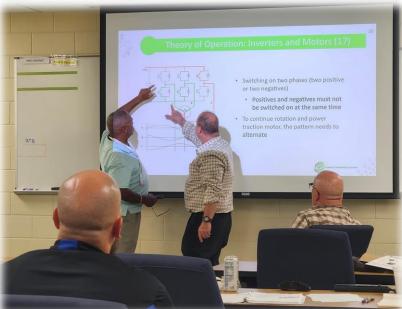
### **Module 1 Introduces**

- Comparisons between ICE, hybrid and BEBs
- Details of BEB systems and major components
- Theory of operation & propulsion, regenerative braking
- High voltage awareness, risks, and identification
- Thermal and battery management systems
- Data communications
- Preventive Maintenance basics













# Electrical Safety and Personal Protective Equipment

BEB Familiarization Course – Module 2



### **Module 2 Introduces**

- Electrical fundamentals and safety considerations
- Personal Protective Equipment (PPE)
- Safety and testing equipment
- De-energization of a BEB electrical system
- (Lock Out/Tag Out)





### **PPE Demonstration**

We'll need two volunteers!



### **Equipment Demonstration**

We'll need two (new) volunteers





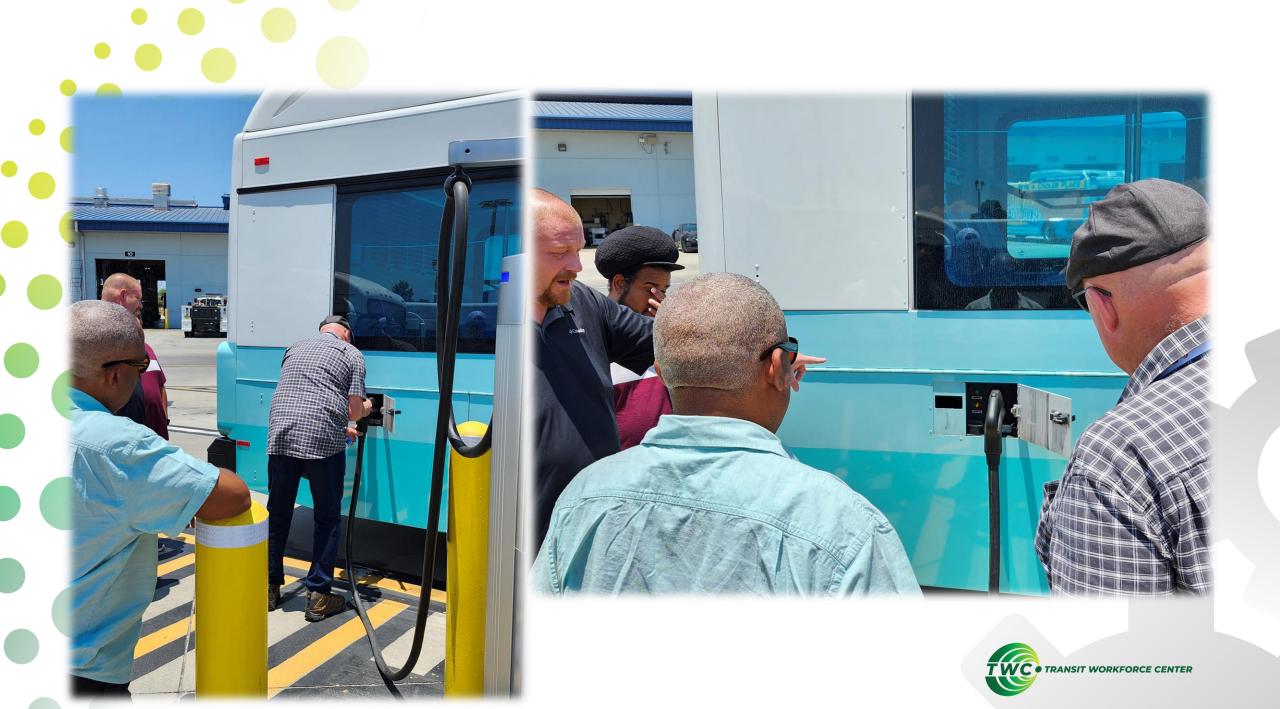
BEB Familiarization Course - Module 3



### **Module 3 Introduces**

- Charging fundamentals
- Electric Vehicle Charging Standards
- Charging technology methods and details
- Brief Charging Precautions









### Resources

- Transit Workforce Center
- TWC Battery Electric Bus Familiarization Course
- TWC Resource Center
  - Search "BEB"



### **Contact Us!**



**Jason Macumber** 



**Brian Markey** jmacumber@transportcenter.org brianmarkey@customtrainingaids.com



**Brandon Liu** bliu@transportcenter.org

