

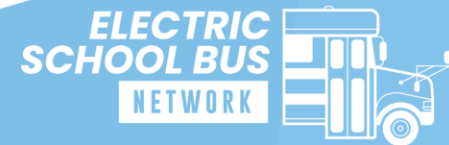
ELECTRIC
SCHOOL BUS
NETWORK



DRIVER TRAINING

California Electric School Bus Working Group

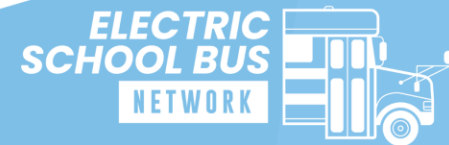
December 7th, 2022 | 11:00 AM PT



DECEMBER 7, 2022

WORKING GROUP AGENDA

- Intro to Electric School Bus Network
 - Jared Schnader
- EnergIZE Update
 - Tesi Bravo
- Guest Speaker Presentation: Driver Training
 - Nancy Jensen
 - Jason Francisco
- Q+A with Speakers
- Summary + Closing



MEET THE TEAM



Jared Schnader
Senior Director,
Bus Initiative Lead



Michelle Hanson
Program Manager,
Bus and Innovative Mobility



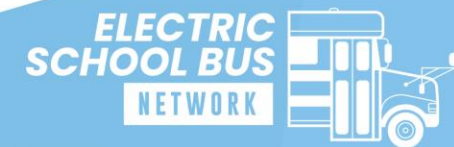
Juan Espinoza
Project Manager



Liza Walsh
Associate Project Manager



Chrystal Ales
Project Manager

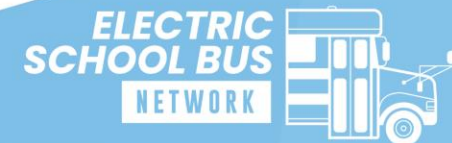




ESB NETWORK

The Electric School Bus Network accelerates nationwide school bus fleet electrification through peer-to-peer networking and dialogue-driven working group meetings for school districts, advocacy organizations, government organizations, and industry representatives. The ESB Network provides access to educational tools, resources, and subject matter experts to help support the electric school bus fleet transition.

In Partnership With:



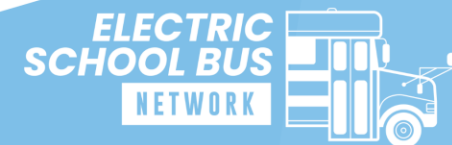
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TESI BRAVO

Lead Project Manager

EnergIIZE




EnergIIZE - Update



Let's go: applications in by Jan 17th

- Check your email for the Application Kit
- Send in your applications
- Date due: 1/17/2022



An aerial photograph of a city street intersection. The street has multiple lanes with white directional arrows. A prominent green grassy median runs across the intersection. There are crosswalks with white stripes and bollards. In the background, there are trees, a building, and some construction equipment. The lighting suggests it's daytime with long shadows.

Pay attention 2023 cohort!

You'll follow these steps if you want infrastructure funding next year

Application Kit Elements



1

Application Form
• Fill out and send in via SharePoint

2

Application Form Guide
• Guide to form

3

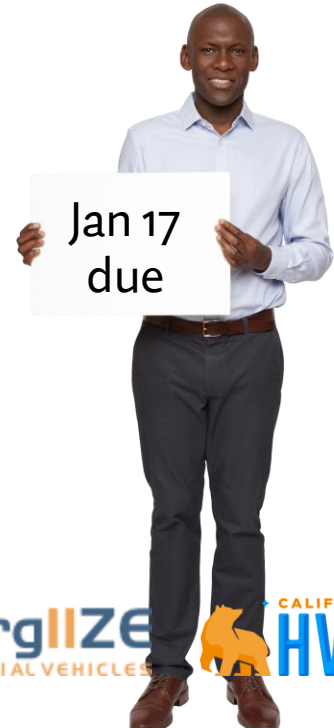
Terms and Conditions
• Read this

4

Site Verification Form
• Documents authority to install on site

5

Implementation Manual (IM) Addendum
• Guide to requirements



EnergIIZE Funds

- Application form
- Big Excel sheet
- With companion guide



EnergIIZE School Bus Set Aside Application
10/2/2022
10:06 AM

energIIZE
COMMERCIAL VEHICLES

EnergIIZE Public School Bus Set Aside Application
Released 10/14/2022, Updated 10/14/2022

Participants will complete each item and section below, unless indicated otherwise. Instructions are given and specific recommendations for entry are given (between paragraphs).

Consult the Guide to this document for an easy-to-follow instructions and tips on gathering material. If any assistance or further information is needed, do not hesitate to contact EnergIIZE staff at the email address below. Our goal is to have responses back to you by 48 hours.

Finally, when complete, save this document and upload it to our secure SharePoint site linked below. If you have issues, please reach out:

[Link to SharePoint site](#)

If you need assistance or information, contact the following:
Or phone us at the following number:
Our goal is to have responses back to you by 48 hours.

SchoolBusInfrastructure@calstart.org
(877) 367-4493

Primary Contact Information (your information)

1. First Name:

2. Last Name:

Participant Information (e.g.: your School district)

1. Organization name (your Applicant Name in HVIP forms)

2. Organization type (your Applicant Type in HVIP forms)

3. Mailing Address:

4. City:

5. State:

6. Zip Code:

7. Website:

8. Primary E-mail:

9. Phone:

10. Tax ID Number:

Site Information (your project)

1. How many sites (with distinct addresses) are you anticipating installing the infrastructure on (this can be an estimate)? (enter a number)

2. What is the address (street address, city, state, zipcode) of the site that the infrastructure will be installed at? If there is more than one site (able to be designated by different addresses), you can list the most priority site here and also list them in the text field below. (enter site address)

3. List additional addresses. (Enter site addresses separated by semicolons; include street address, city, state, and zipcode).

5. Does the participant own the site? (enter Yes or No)

6. If the participant owns the site, can proof of ownership be provided? (enter Yes or No)

7. If someone other than the participant owns the site(s), or some of the sites, provide their organization or personal name here if you know it. (enter name if known, or "I don't know")

8. What electricity provider services your location? (enter name if known, or "I don't know")

9. Enter the utility customer number or numbers for the sites you have selected, if known. (enter number if known, or "I don't know")

10. Enter the utility ticket number or numbers for the sites you have selected, if known. (enter name if known, or "I don't know")

11. Are you participating in your utility provider's make-ready program? (enter Yes or No)

Page 1

EnergIIZE Public School Bus Set Aside
Application Form Guide

Release date: October 14, 2022; Revision Date: October 12, 2022

Overview

This guide is a quick and easy overview of everything you, the potential program participant, need to fill out in the Application Form for the Energy Infrastructure Incentives for Zero-Emission Commercial Vehicles (EnergIIZE) program supporting the Public School Bus Set-Aside for Tall and Medium Air Districts.

About the EnergIIZE Public School Bus Application Form

If you have expressed interest in infrastructure when applying to HVIP and answered questions regarding your needs. **The purpose of this form, the first step in the five-step process to receiving incentives for commissioning infrastructure, is to onboard you to the infrastructure side of the work and start tracking and detailing your infrastructure needs.**

In short, the application form will document:

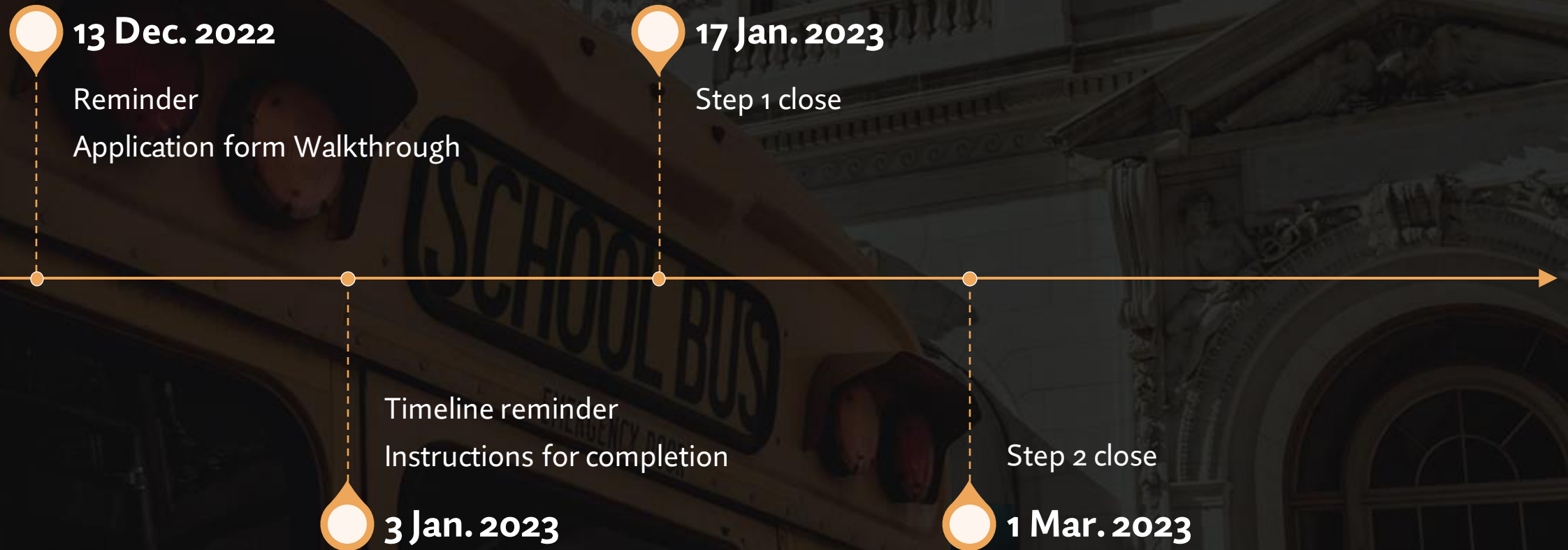
- Who you are
- Where the infrastructure will be installed
- What details you know about the site's ownership
- Who the project partners are (e.g. if you have a vendor)
- What the equipment is and initial cost estimates
- Whether you have read the Terms and Conditions for EnergIIZE participation

1 | Page

Form

Guide

Timeline



Keep Up with Infrastructure!

- Educate yourself
- Contact your utility
 - Check if they have a make-ready program
- Consider your needs and the costs
- Understand the timelines
- Track the work going on, talk to each other, share knowledge
 - energy.ca.gov/data-reports/energy-almanac/zero-emission-vehicle-and-infrastructure-statistics



Photo: Spectrum News 1

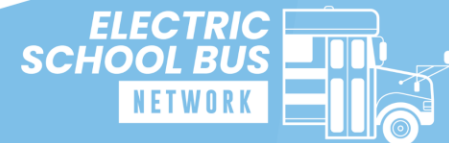
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NANCY JENSEN

Retired Certified School Bus Driver Instructor

Twin Rivers Unified School District



Driver Training for Electric Buses

Drive your ESB

Training program

- Develop driver EV training program based on how your vehicle is designed. Include your entire operations team in any classroom you provide.
 - Telematics – (Dashboard)
 - Brake system – Air or Hydraulic?
 - How does the regenerative braking system operate.
 - Safety features for the electrical systems and batteries.
 - Anticipating and/or calculating turtle or derate mode. What to do if it happens.
 - No Roll back – This varies from vehicle to vehicle.
 - Defensive driving review
 - Use the behind the wheel guidelines the Office of School Transportation distributed 1/23/2020.
 - Develop an inhouse checklist for your trainers to use specific to your equipment
 - CHP testing
 - Learning to drive electric efficient takes practice.

Learn your ESB and its features



- Ask your manufacturer for training on how to efficiently drive your vehicle. Takes notes and get phone numbers.
- Develop a training route that allows your drivers and/or trainees to use the EV features efficiently and effectively. Focus on:
 - Using and interpreting the ESB Telematics and how this will ease range anxiety
 - No rollback
 - Regenerative braking and how it helps them maximize range (Hypermiling)
 - How to not overheat the batteries or motor with aggressive acceleration and deceleration.
 - Understanding the Environmental factors that play into the overheating of electrical system

Plug it in

- Charging procedures.
 - When to plug in.
 - Fast charging procedures.



Reporting problems

- “It didn’t charge” is not enough. Teach everyone to participate in the EV success story and ask them to help learn “why or what failed”
- Focus on symptoms. “The charger had default code 847 on the display”, “the motor indicated it was overheating and then shut down”
- Code? Lights blinking in a specific order? Strange noise? Blue light on the dash?
- It does help the mechanics and/or manufacturer fix and improve the EV if you tell them what you experienced or saw.
- Driver feedback is valuable. Encourage drivers’ honest feedback bad or good.

Have fun!



The first electric school bus TRUSD received and had CHP inspected in December of 2017.

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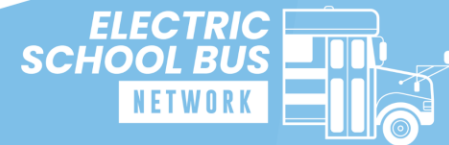


JASON FRANCISCO

Transportation Business Manager

FAAC Incorporated

Cell: 586-212-4463 Email: jasonf@faac.com





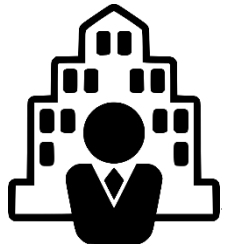
THE LEADERS IN SIMULATION FOR TRAINING AND RESEARCH

PRESENTED BY

JASON FRANCISCO, TRANSPORTATION BUSINESS MANAGER



BACKGROUND ON FAAC INCORPORATED



FOUNDED IN 1971



240+ TEAMMATES



QUALITY CERTIFICATIONS



HEADQUARTERED IN ANN ARBOR, MI

TRANSPORTATION MEMBERSHIPS



**CENTER FOR TRANSPORTATION
AND THE ENVIRONMENT**



SATELLITE OFFICES in FL, AZ, and NV



SIMULATION TRAINING BENEFITS



**IMMERSIVE
EXPERIENCE**
Practice until
perfect.

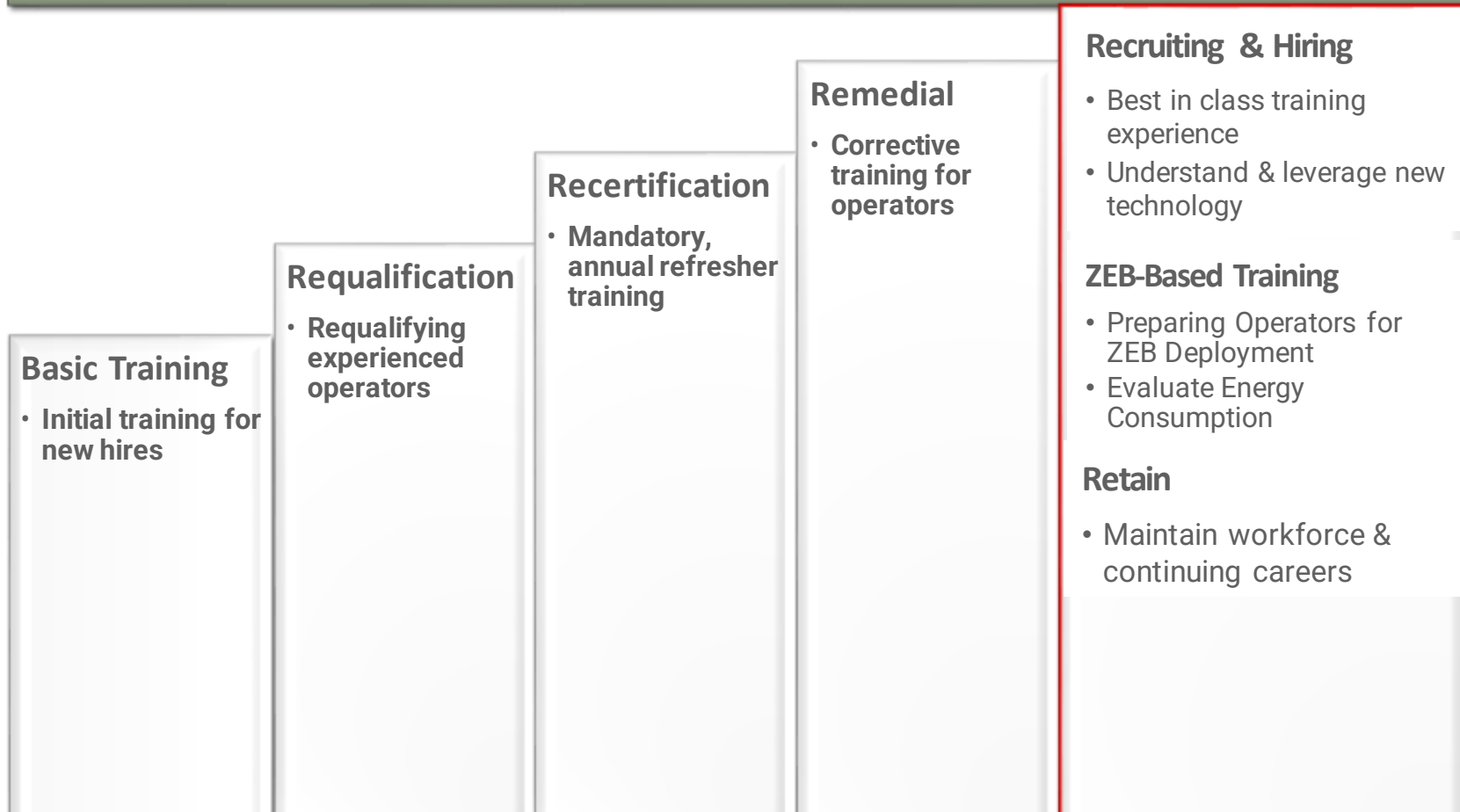


MEASURABLE RESULTS
Through equitable
evaluations.



**WORKFORCE
DEVELOPMENT**
Advance together.

Simulation Training Use Cases



Recruit-Hire-Train-Retain



MB 1000
FAAC
 BUS OPERATOR TRAINING SIMULATOR

OCCUPANT CENTRIC TRAINING SIMULATORS



MB 2000
FAAC
 BUS OPERATOR TRAINING SIMULATOR



PARATRANSIT
FAAC
 OPERATOR TRAINING SIMULATOR



Workforce Development

Recognizing the Importance of Personnel Training and Development

Basis for Active Learning

Integrate New Information

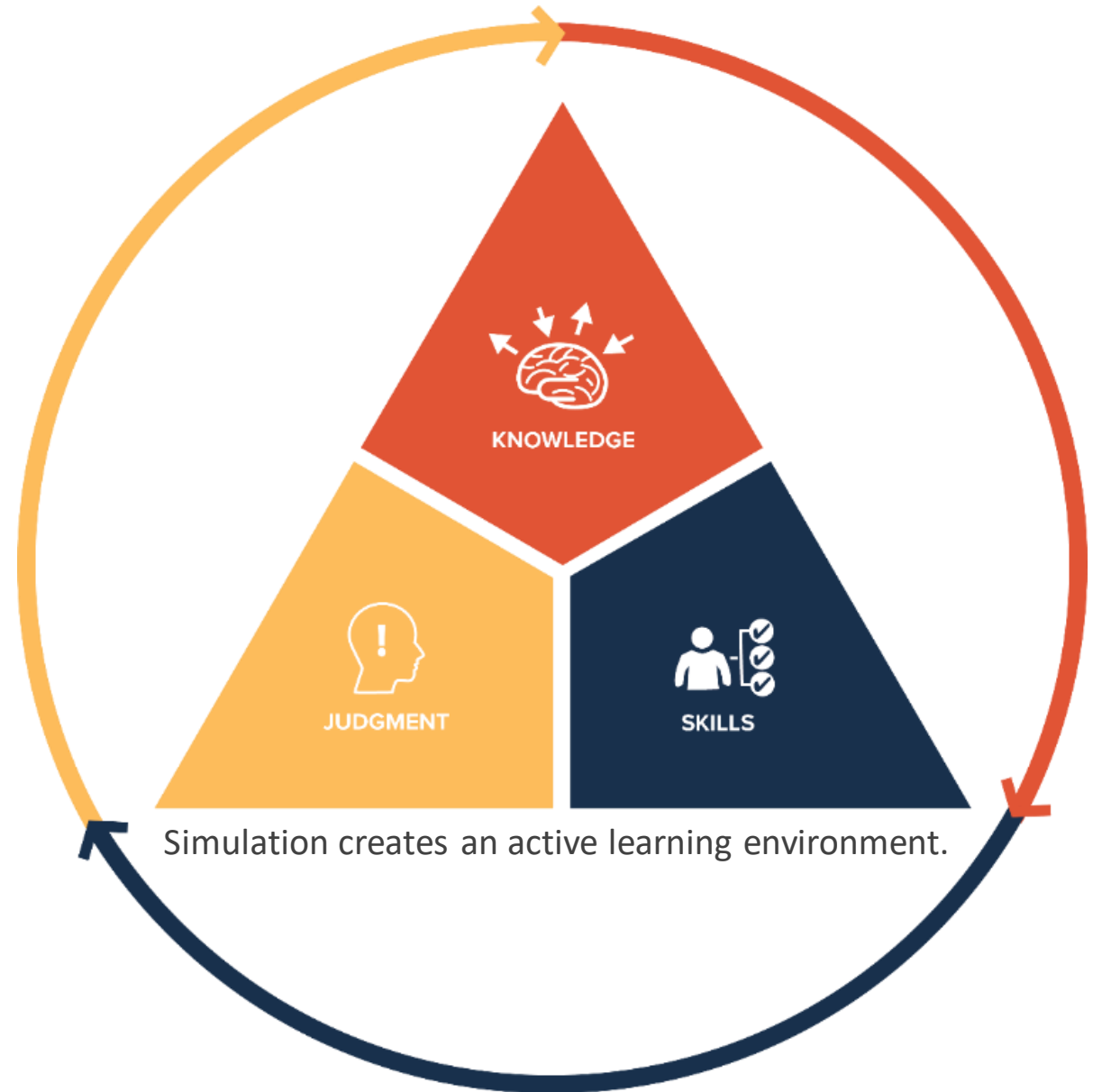
Generate Connections & Questions

Strengthen Organizations Reputation

Facilitate Accident Reduction

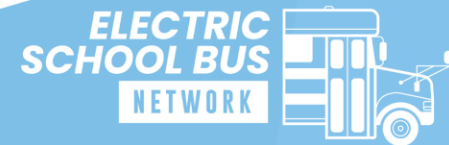
Identify Bad Driving Practices

THREE ELEMENTS OF ENGAGEMENT TRAINING



SAVE THE DATE!

- The Thank You Email Will Include:
 - Recording of the meeting
 - Copy of slides
- Next Meeting: February 1st, 2023 at 11:00 AM PT
 - **Note:** You are already registered! Save the date on your calendar.
- Questions?
- Email SchoolBusTeam@calstart.org
- Email SchoolBusInfrastructure@calstart.org



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Thank You For Your Time!

