# FORMULA SAE 2025

# DRIVERLESS DEMO HANDBOOK



## **EXECUTIVE SUMMARY**

In 2025, Formula SAE Electric will feature a Driverless Demonstration event, showcasing the integration of autonomous systems within electric race vehicles. This demo marks a strategic step toward aligning with emerging technologies in mobility and offering teams the opportunity to explore and exhibit innovations in driverless vehicle design and performance.

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#### PADDOCK ASSIGNMENTS

Teams competing with a 2025 vehicle and bringing their 2024 vehicle for the Driverless Demo will be accommodated in the paddock area with additional space.

If you will have two transports, please make sure you are in line together to assist with paddocking.

#### OVERNIGHT ACCUMULATOR STORAGE

Teams competing with a 2025 vehicle and bringing their 2024 vehicle for the Driverless Demo will be required to store overnight both vehicle accumulators.

Teams will be assigned two boxes.

### **REGISTRATION**

Teams participating in both the 2025 Formula SAE Electric competition and the Driverless Demonstration are still restricted to the 30 team members listed on the Fast Track Roster for all activities related to the official 2025 competition.

An exception will be made to allow additional team members to attend solely for Driverless Demo support. These individuals will be issued a different color wristband during student registration and will not count toward the 30-member competition limit. Outside of Demo-related responsibilities, these additional members are considered spectators—they may not participate in any dynamic/static events or perform work on the competing 2025 vehicle. Their role is strictly limited to supporting the Driverless Demonstration.

To register Driverless Demo-only team members, students must report to SAE Registration. To help streamline the process, teams are encouraged to prepare a document in advance that includes each individual's full name, SAE membership number, emergency contact name, and emergency contact phone number.

#### **SCHEDULE - DEMO VEHICLES SPECIFIC:**

Scheduled times are tentative and may adjust slightly as needed. Announcements will be made via PA system and FSAE Mobile App.

#### Tues, June 17<sup>th</sup>:

9:00 AM – 5:00 PM Accumulator SES Inspection in Charging Tent 10:00 AM – 5:00 PM Accumulator Electrical Inspection in G2

#### Wed, June 18<sup>th</sup>:

8:00 AM – 5:00 PM Vehicle SES Inspection in Charging Tent 9:00 AM – 5:00 PM General Mechanical Inspection (Assembly line)

#### Thurs, June 19th:

9:00 AM – 4:30PM EBS Inspection (See EV Tech Admin table for assistance)
3:30 PM – 5:30 PM Demo Course Practice (backstretch)

#### Fri, June 20th:

8:00 AM – 10:00 AM Driverless Demo (backstretch)

10:00 AM Re-Tech Inspection opens for 2025 vehicles

#### TECHNICAL INSPECTION PROCESS

#### 2024 Vehicles

All 2024 vehicles are required to undergo a limited mechanical inspection and a full electrical inspection on top of driverless inspection, beginning with accumulator checks on Tuesday.

#### 2025 Vehicles

All 2025 vehicles registered to compete for the 2025 Formula SAE Electric competition and participating in the Driverless Demonstration must complete the full technical inspection process as normal, then complete driverless inspection.

Following completion of the Driverless Demonstration, all 2025 vehicles will be required to undergo a re-tech inspection before participating in any official 2025 dynamic events. To expedite this process, student teams must submit in advance a document outlining the scope of work planned to remove or deactivate driverless technology from the vehicle.

To aid all areas of inspection, teams should come prepared with all documentation necessary.

Tech Areas	2024	2025
Accumulator	full	full
Mechanical	limited	full
EV Active	limited	full
Tilt	n/a	X
Rain	n/a	X
Brake	n/a	X
EBS	Х	X

#### **Tech Number Order:**

- 2024 Vehicles are assigned a Tech Order Number for their 2024 vehicle separate from their 2025 vehicle. Priority will only be given to the 2024 vehicle.
  - Teams will receive number at registration.
  - Teams may start inspection first thing on Tuesday.
- 2025 vehicles will follow assigned Tech Order Number for the competition.
  - Priority will be given to 2025 vehicles participating in Driverless Demo **only if** they are fully race-ready and equipped with all required driverless systems at the time of inspection.



All teams will follow normal procedure and check in with Tech Marshall at the Tech Marshall Tent located between G2 and G3.