

## Virtual Chem-E-Car Program

**NOTE: AIChE encourages all parties involved to practice and operate under the strictest guidelines including social distancing, thorough sanitization, and wearing PPE protocols within the state, region and/or university you are in.**

Friday (T-36 days):

1. Deadline for teams to submit their EDP for review; Stressing the importance of providing a finished/completed EDP – **Incomplete EDP could result in disqualification of the team.** These EDPs will be given to Regional Safety Coordinators and Volunteers to be evaluated; Additional information and compliance required in the new EDP will include:
  - a. AIChE Code of Conduct/Ethics.
  - b. Identifying the maximum length and width of team's track on site.
  - c. A detailed fire safety floor plan of the designated area where team plans to conduct runs on the day of the competition. This floor plan must indicate locations of basic safety equipment.
  - d. Identifying a faculty member (other than Chem-E-Car Advisor) who will serve as the Onsite Safety Judge (OSJ).
2. Teams will
  - a. Coordinate with their EHS Department as they order chemicals and manage waste disposal
  - b. Successfully have recruited their Onsite Safety Judge (OSJ)

Friday (T- 22 day):

1. Evaluated EDPs will be returned to teams.
2. Teams should have:
  - a. Enough proper safety equipment, a reliable internet connection, and a designated team member who will video capture the run of the car.
3. Deadline for teams and their advisors to complete the normal online safety training.
  - a. The Onsite Safety Judge and Chem-E-Car Advisor will be required this year to take an additional safety webinar, coordinated by AIChE in order to receive training on how to conduct a safety review for a Chem-E-Car.

Monday (T-12 days):

1. Deadline for teams and Onsite Safety Judges to complete safety inspector's checklist. OSJ will conduct safety review and complete the rubric and submit to AIChE staff and Regional Safety Coordinator; **Please keep in mind that this process will determine the final go/no go for the car with respect to safety.**
2. Any Management of Changes for the EDP are due.
3. Teams will submit a 5 minute pre-recorded video presentation for poster judging; Poster Judges will review these presentations.
  - a. Teams will be provided a general outline to follow to ensure every aspect of the car is described (e.g. starting and stopping mechanism etc.)

4. Onsite Safety Judge will also (with or without the help of the Chem-E-Car team) record a maximum 5-minute video of the Chem-E-Car to show each and every aspect of the car. **This video will be sent to each Regional Safety Coordinator for review. Video must address any comments in the evaluated EDP (given back to teams by T-22).**

Saturday (T-7 days):

1. Host Universities/AIChE Staff to coordinate a Zoom Poster Judging.
  - a. Poster Judges and students will get a chance to interact in a Q/A style format.
  - b. Poster Judge will then submit their poster judging rubrics to AIChE Staff and Regional Safety Coordinator.

Monday (T-5 days):

1. Regional Safety Coordinators will provide final feedback on the car using the 5-minute video and Completed Safety Inspector's Checklist. Safety Coordinator may ask Onsite Safety Judge to follow up on any concerns on the day of the competition.

Saturday (T-0 days): Day of the Chem E Car Competition; **Detailed logistics for competition day TBD**

1. In order to compete, the Chem-E-Car faculty advisor and appointed Onsite Safety Judge must be present. They will follow up on any flagged issues (marked by the Regional Safety Coordinators).
2. All teams will connect via a zoom call coordinated by Host Universities or AIChE Staff using camera guidelines provided by AIChE
3. Each team will be notified of the distance and run order 1 hour before start time. Each team will participate in two rounds of runs with a 15 minute break in-between each round.
  - a. Each team will be given a run time of 2 minutes.
4. After both rounds, scores will be compiled and winners will be announced shortly after.
5. Teams will be responsible for cleaning up their competition area and appropriate disposal of waste chemicals on their campus.