



## FORMULA SAE ITALY 2020

### Judge Description "Design Event"

The Design Event consists in the evaluation, by a technical jury, of the design standards which each team followed in the building of their racing car, from the comprehension of these by the team to the quality of the car.

To make this possible, judges listen to the team presentation, they inspect the car, which has to be completed and ready to race, they interview the team members and in the end they evaluate their ability in giving answers.

Because of this, judges need to have one of the following knowledges:

- ✓ aerodynamics / ergonomics / style
- ✓ electronics / infotainment
- ✓ chassis / vehicle dynamics
- ✓ powertrain (endothermic, electric):
  - endothermic engine calibration
  - endothermic engine fluid-dynamics and thermodynamics
  - mechanical design of an endothermic engine and its accessories
  - gearbox design
  - electric engines
  - power electronics (inverter)
  - battery pack
  - battery management system
- ✓ electric traction systems

### Commitment:

- Before the event:
  - 2 hours of training (between end of June and beginning of July) in a dedicated meeting in ANFIA headquarter or on conference call
  - Reading the Design Event rules (about 4 hours)
  - Review of the Design Reports and Design Spec Sheets of the teams assigned (about 30 minutes for each team, for a total of 7/8 teams per judge)
- During the event:
  - Thursday from 8.30 to 8.45pm for the Design Briefing in Varano Circuit
  - Friday from 09.00am to 6.00pm for Design presentation and from 8.30 to 10.30pm for Design Finals. These latter are not mandatory for all the judges but it is necessary to have at least one judge per board"
  - Saturday morning from 9.00am to 12.45pm to give to the teams judges' feedbacks. This is not mandatory for all the judges but it is necessary to have at least two judges per board.

Judges are required to check the definitive timing on the official schedule of the event



### Judge Description “Business Presentation Event”

The Business Presentation Event consists in the evaluation of the team ability in developing and bringing a complete business case. The event is judged by experts from the automotive sector: that’s why each team has to be able to face off not only with engineers but also with other positions of a company, including production, marketing and financial managers. The evaluation focuses on the content, on the organization and on the explanation of the project but also on the ability of the team in answering at the judges questions. The team which will give the best presentation, also together with the quality of the car, will win the event.

Business Presentation judges need to have the following knowledges:

- ✓ Fluent English
- ✓ Ability in working and taking decisions in a team and in respecting the other judges opinions
- ✓ Timekeeping
- ✓ Dedicating entirely their own time to the two evaluation days, in order to avoid to compromise the boards' operations
- ✓ Willingness to follow the directions of organizers and of board leaders

Features required:

- ✓ Motivation and interest in the event
- ✓ Business Plan, Marketing, Finance (basic) notions, especially in the Automotive field

Having been part of a Formula Student Event is preferred

Commitment:

- Before the event:
  - 2 hours of training (between May and June) through Skype
  - Reading the Presentation Event rules (about 30 minutes)
  - Evaluation of the Business Plan Pitch Video (BPPV) of the teams assigned (about 10 minutes each, for a total of 15 BPPV per judge)
- During the event:
  - Thursday from 9.00am to 7.00pm
  - Friday from 09.00am to 7.00pm
  - Saturday morning from 9.00am to 12.45pm to give to the teams their feedbacks. This is not mandatory for all the judges but it is necessary to have at least one judge per board.

Judges are required to check the definitive timing on the official schedule of the event

### Judge Description “Cost Event”

The Cost Event evaluates, following the rules, the project costs made by the teams.

Features required:

- ✓ Motivation and interest in the event
- ✓ University level knowledge and interest in the topic of costs

Having been part of a Formula Student Event is preferred



Commitment:

- ✓ Before the event: 3 hours of training (mid May) mainly through phone calls and conference calls; and in addition the needed time to evaluate the cost reports: about 3 or 4 hours for each report (of course it would be easier for people who already had an experience in some FSAE events)
- ✓ During the event: the schedule of the cost event goes from Thursday from 11.00am to 07.30pm to Friday from 08.00am to 05.30pm plus eventually on Saturday morning from 9.00am to 12.45pm for the judges' feedbacks to the teams.

Judges are required to check the definitive timing on the official schedule of the event.

Overall, this is what you could gain from being a judge during this event:

- ✓ Living in an international atmosphere made of passionate people (both judges and students)
- ✓ the chance to prove yourself as a judge (for the youngest people it would be the first time after years of being judged as students or junior engineers)
- ✓ the chance to dealing with the English language: cost reports are filled in English and also the inspections are in English (Italian teams included)
- ✓ the chance to deal with high level experts coming from several companies and from different nationalities, both during the main event and during parallel events the judges dinner, the technical presentations made by the sponsors, but also simply being present in the circuit until the closing of the day
- ✓ Living a positive team experience: the group of the judges is very close and varied
- ✓ Being part of a training event for the future generations of engineers