

BAJA SAE MÉXICO



3 - 5
December

Operación del Evento Virtual

SEASON 2021

NOTE: This document is subject to change

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BAJA SAE México

OPERACIÓN DEL EVENTO VIRTUAL

THE BAJA SAE 2020 VIRTUAL COMPETITION WILL BE HELD IN THREE PARTS:

The BAJA SAE MEXICO 2021 event will take place virtually, the evaluation of this year's design, sales and costs will follow the basic procedure of the previous year.

STATISTICAL PRESENTATIONS

All teams will be assigned a schedule to make their submission to the judges via the Zoom platform. Teams will receive the details by email. The schedule will be determined and each team will receive an email to specify the time of their oral presentation.

Note: Static schedule will also be provided in this manual.

The design presentation will take place on December 4th and 5th.
The presentation of Costs will take place on December 3rd.
The sales presentation will take place on December 3rd.

SAE would like to make the following clarifications regarding the Virtual Events of 2021:

- Definition of participation in "Part 1: Static Presentations": teams must submit all required documents according to the rules and deadlines for action.
- Participating in "Part 2: Virtual Event Day": Our experts are happy to connect with you; to be able to assist them in their presentations, creating a skills workshop by hosting several technical sessions and more in the expert room. All team members are invited to participate, even if their team does not participate in the static assessment.

BAJA SAE México

DESIGN

Evaluation procedures of the virtual design Baja SAE 2021

The design evaluation for 2021 will follow a virtual format, but the content and evaluation criteria will be essentially the same as those of past face-to-face events, with a small change in scoring percentages (details below). Below you will find the procedure and general information about the part of the competition related to the evaluation of the design. Please familiarize yourself and your team with the process and design section of the rules (C3.1) for an effective and efficient design evaluation.

Procedures.

In the initial evaluation, each team will be evaluated once, in a room, by an integrated panel of design judges. The total points will be determined by the panel of judges as a whole, since, if the vehicle is judged in its entirety, it may not match the sum of the categories.

The evaluation of the virtual design will be a presentation format using a meeting of the teams on Zoom. Your team can use a presentation format .pptx of your choice, it is recommended that presentations are fluid and dynamic.

The overall flow of design evaluation should be like previous face-to-face events. Each competition team will begin its evaluation period in each room by presenting a summary of the car design according to the system, delivered by one (or more) person (probably the captain) to the entire panel of judges (covering the users, needs, specifications and values that guided the design process; key concept and configuration results).

Each of the members of the judging panel has a specialty: transmission, chassis/ergonomics, steering/suspension/brakes, and the side (which will evaluate the entire vehicle, as well as the system integration). "Students will be judged on the creation of design specifications and the ability to meet those specifications, computer-aided writing, analysis, testing and development, manufacturing, maintenance, system integration and the way the vehicle works together. Each of these engineering parts.

Note on Testing/Validation and Correlation of Analysis and Testing:

We realize that many Baja SAE cars were not finished and therefore much of the planned full vehicle testing could not be completed. Instead of evaluating the tests and validation that were run as we normally would during an in-person event, we will evaluate the teams' test and validation plans and how the teams planned to correlate their analyses and tests. Scoring percentages have been adjusted as a result.

All design judges have significant engineering experience and most have substantial experience in the design of Baja SAE Vehicles. One of the advantages is the ability to have judges from the Automotive Industry and Space Aero participating in the design event, however, keep in mind that each judge has dedicated significant time and commitment to contribute to Baja in SAE's educational outcomes in engineering and education.



Competition teams should strive to give panels of judges their best performance.

Scenario and timeline

All teams will be assigned a time, date (December 3, 4 or 5) and a room for design evaluation. Please join Zoom and be ready for the event at least 5 minutes before your design time. In the event that a team misses its schedule, there is no guarantee that the team will be evaluated, so please be punctual. We will do our best to accommodate the changes, but there is no guarantee that we will be able to change your schedule.

Evaluation design.

There will be approximately 4 slots of design evaluation. Panels of judges shall remain in the chamber and shall not exchange members. Each team will be evaluated in a period of approximately 30 minutes. Details of that period are listed below.

Format

- 3 minutes to enter the room.
- 15 minutes for the vision of the vehicle (team and judges in PLATFORM) time in which they must show the presentations of the subsystems as the case of each room (each subsystem; general package / system integration, suspension, steering, brakes, traction train / powertrain, chassis and ergonomics)
- 10 minutes for judges' questions.
- 2 minutes to leave the room.

EXAMPLE OF PRESENTATION TIMES

Beginning	Termination	Group	Suspension and Steering	Transmission / AWD Systems	Armor / Ergonomics	Brakes and Integration
8:00:00 a.m.	8:30:00 a.m.	1	Team A	Team H	Team I	Team P
8:30:00 a.m.	9:00:00 a.m.		Team B	Team G	Team J	Team O
9:00:00 a.m.	9:30:00 a.m.		Team C	Team F	Team K	Team N
9:30:00 a.m.	10:00:00 a.m.		Team D	Team E	Team L	Team M

CHOOSE SCHEDULES

End of design:

The teams with the best scores in the Design valuation will compete in the Finals. The final design will be held on DECEMBER 5 and after all initial design evaluations have been made. The procedure of the Virtual Design Finals will be slightly different from the previous face-to-face events and will follow a format similar to that of the Virtual Initial Design 2021. Each team will be evaluated in a period of 20 minutes. Details of that period are given below.

- Format

-10 minutes for an overview of the vehicle. It is expected to be the same presentation that was given during the initial design (all the team and all the final judges of the design in it). Minutes that will serve for the presentations of the general package / systems integration. This is expected to be the same presentation that was given during the initial design (all the team and all the final design judges in it).

-The score will take place after all the presentations of the design finals have been given.

-There will be no further comments on the design finals. The finals judging panel will examine each finalist team from an overview and determine the finalists' ranking and bonus points. The final judging panel will examine each finalist team from an overview and determine the finalists' ranking and bonus points.

4wd / Awd

2021 bonus points:

If your team was planning to compete with a 4x4 vehicle in the 2021 season, there are still some bonus points at stake. Each team that presents a 4x4 vehicle in the design competition will be awarded bonus points to be defined.

4wd/Awd Design Evaluations:

The 4x4 and Awd design evaluation procedure will follow a format similar to that of 2021 Virtual.

Initial design. Each team will have the possibility to present its design if it wishes in the presentation of the transmission system.

BAJA SAE Mexico

SALES PRESENTATION

Description of the Baja SAE sales presentation event Date: December 3 2021.

Location: via Zoom.

Schedule: The sales presentation will be judged on December 3, between 8AM and 3PM.

The finals will be taking place on December 5 at a time to be defined.

EVALUATION

Operations: Deadlines of 30 minutes allocated for the evaluation.

Virtual Sales Presentation Details 2021

Introduction:

The sales presentation for 2021 will follow a virtual format, but the content and evaluation criteria will be essentially the same as those of past in-person events.

For an effective and efficient presentation, please familiarize yourself and your team with the Sales Presentation section of the regulation (Article 5). The judges' scorecard and rubric/guide are also recommended resources to review.

Required content:

Content required to provide by December 1 for the virtual sales presentation event: As a novelty in the virtual event, teams must submit their sales presentation slides in advance. Please turn your presentation into a .PDF and upload it to your team's document presentation page at (ADMIN MAIL). Judges will use them as a reference during deliberation and as a backup in case of technological problems.

It is understood and expected that the content of the presentation may change between what is submitted and what is presented.

We also understand that conversion to a .PDF may limit your presentation, but it is necessary due to the size of the file.

Objective and Audience

The objective and audience of the sales presentation remains unchanged for the virtual format:

-Objective"... that the team persuade the "executives" of a hypothetical manufacturing company to invest in the design, manufacture, sale and distribution of the team's SAE vehicles. The team must assume that they will produce the vehicle at a rate of 4,000 units per year. See the trial rubric for a broader context."

-Public"... teams should assume that the judges will be a mixed group of corporate executives who may have experience in marketing, production and finance, as well as engineering."

Presentation format

The format remains mostly unchanged, but there are some differences:

-All teams will be assigned a date and time of sales presentation (DAY AND TIME). They will also receive access to a Zoom link for their specific room. Please join in and be ready to present at least 10 minutes before the scheduled time. In the event that a team loses its time slot, there is no guarantee that the equipment will be evaluated, so please be punctual. We will do our best to accommodate the changes, but there is no guarantee that we will be able to change your schedule.

The number of sales presentation rooms is still being determined. Panels of judges will remain in a room, and will not exchange members. Each team will be evaluated in a period of 30 minutes. Details of that period are listed below.

-One or more team members can make the presentation to the judges.

-Time is limited to three (3) minutes to enter the room.

-The presentation itself is limited to a maximum of fifteen (15) minutes (the entire team of students and all the judges in the same o).

-After the presentation there will be a question period of approximately ten (10) minutes (the entire team of students and all the judges in it).

Only judges can ask questions. Any team member on the floor/stage of the presentation can answer questions even if that member did not speak during the presentation itself.

-three (2) minutes for the judges and team to leave the room.

Punctuation

Score remains unchanged: "The sales presentation event will be scored based on categories such as: 1) The content of the presentation, 2) The organization of the presentation, 3) The effectiveness of the visual aids, 4) The speaker's presentation, and 5) The team's answers to the judge's questions." The organizers reserve the right to use a method of their choice to standardize scores in all rooms if they deem it necessary.

End

The final will be defined at the end of the evaluation of all the teams. The first three teams to show up will be notified. The first three teams to show up will be notified to December 5. The format will be consistent with regular presentations: Invitation to the meeting of zoom with a ten-minute presentation. The difference is that it will be open to any team of students who see it (we encourage other schools to come and see it). A panel of judges will be selected for the finals and there will be no Q&A session. Teams watching from a distance will not be able to record the presentations of the finals.

BAJA SAE Mexico

COST REDUCTION PRESENTATION

The judging panel will evaluate each team with a similar format to the sales presentation, limiting the time to 20 minutes distributed by 3 minutes to enter the virtual session, followed by 10 minutes of presentation, 5 minutes of Q&A, and finishing with 2 minutes to exit the virtual session.

The event evaluation will be held according to the rulebook evaluation criteria founded at Bajasae.net. There is no presentation format. However, it is recommended to include visual aids for a better understanding of the ideas presented.

The event score does not consider the percentage of the cost reduction. The feasibility and analysis of the ideas presented are the most important topics in the evaluation score.

The judging panel will assign a random car system to the teams, they have to analyze, design and, evaluate a cost reduction proposal according to their cost report 2021 of one or more components of the assigned system.

The three better-scored teams will pass to the finals, where they have to repeat the cost reduction presentation, adding the comments previously expressed for the judging panel. The first place will get five extra points added to their original exposition.

For more detailed information about cost events, click on the following link

https://fcb25dac-09b8-4091-8c7e-3622650f7e40.filesusr.com/ugd/804925_136bb5694567400c9a50910e725877c3.pdf