

Scope of Cost Experience: (100 points)

The Cost Event for the 2021 competition season is being modified to incorporate two (2) scored events, each will be worth a total of 50 points for an overall possible point value of 100 points. The goal of the cost event remains as principle an event in which student teams are encouraged to evaluate their design decisions based on cost.

Student teams must submit a report of their car's cost to be evaluated by the cost judges. The concept of the cost event is to obtain an accurate estimate of the prototype cost.

**New this year, is a written report requirement where student teams will identify and develop cost savings of their vehicle designs in a cost reduction exercise.

The Cost Report: (50 points)

The standard cost event is where teams will be evaluated on the prototype cost following the normal event format. One modification from the 2020 competition has been made, the prototype cost will not exclude drivetrain costs in 2021. ****Teams will need to be sure to add this area into their 2021 cost reports.**

Judges will expect to see revised cost reports from those teams who competed in 2020's virtual competition. Reports must be revised with the drivetrain inclusion as well as any new modifications made this year.

If you are a new team, your cost report submission will be due to judges using the same deadlines established for all submissions. The cost report will be judged based on the cost of the car and completeness of the included parts on the cost report. The cost of the car is determined by the cost of the parts and fabrication using established manufacturing practices and the application of "Lean Manufacturing" principles. The report will follow the guidelines set forth in the published rules. The costs and penalties will then determine the cost score.

Cost Report Judging

The cost judges will review the final submitted cost report and select teams to be audited. The teams may be audited for a single subsection or multiple subsections depending on the review. Teams will be notified that they have had their cost report adjusted and will have the option to accept the result of the findings or challenge the findings.

If a team decides to challenge the results, a virtual meeting will be arranged for the teams with a cost judge to discuss and possibly adjust the findings. Cost judges will work with student team schedules.

Cost Reduction Report: (50 points)

The goal of this report is for the teams to develop up to five (5) concepts for cost reduction over their team's previous designs.

Judges will score up to 10 points for each idea that is presented using a defined scoring rubric which can be found online under Series Resources. Teams will be scored on several factors, including if the idea is realistic, thoroughly analyzed, and presented in an easy to understand report.

One example of data that could be included would be FEA reports showing how the new component performs in application compared to the old design. The actual amount of cost reduction is not going to factor into the score, the score for each idea will be based on the report the team submits.

Cost Reduction Report Judging

Judges will review the cost reduction report and offer feedback online under the document submission area. All team submissions will be reviewed and scored against the scoring rubric.

Submission Requirements:

Teams will be required to submit a cost report using the cost module online www.bajasae.net

Teams will be required to submit a single ten (10) page PDF document where text will be limited to a max of 5 pages in the report. The additional pages may be used for drawings and images to support the developed cost reduction ideas.

If a team submits a report that exceeds the five (5) pages of text, then only the first five pages will be read and evaluated.

The maximum size for the required submission is 25 MB.

Submission Deadlines:

Cost Reduction Report will be due on February 15, 2021

Cost Report will be due on March 29, 2021

Static Presentation Judging Date:

Teams will be contacted by Cost Judge to establish a date/time starting Mid-April if team decides to challenge audit findings.