



American Rocketry Challenge 2025 Presentation Competition



OVERVIEW

The 2025 Presentation Competition will assess how well a team can explain their rocket’s design, how their test flight data drove their choices, and how well they worked as a team to make it all happen.

At the International Rocketry Challenge (IRC), a team’s presentation accounts for 40% of the overall score. U.S. champion teams almost always have to spend their prep time not working on their rockets, but developing presentations! Teams can get a leg up on their international competitors and be ready for the IRC by competing in the 2025 Presentation Competition.

ELIGIBILITY AND SUBMISSIONS

Any registered team that has flown at least three test flights with a rocket complying with 2025 rules is eligible to compete. These do not have to have been official qualification flights, and they do not have to **have been entirely successful flights. No more than one team from any school or organization may submit a presentation.**

[Click here to submit your Presentation Competition entry](#)

For schools with multiple teams, any combination of ten students from any of their teams may work on this presentation. Up to ten students may work on a single presentation, and their names must be listed when submitting their presentation.

REQUIREMENTS

Teams should use Microsoft PowerPoint, Google Slides, or other similar software to create their presentations. Presentations must include a cover slide that contains the sponsoring organization or school name, as well as their team number. Speaker notes for the cover slide must list the names of the students who created the presentation.

Presentations may use no more than 20 slides, excluding the cover slide. No animations, embedded videos, special effects, or transitions are permitted. Teams are, however, encouraged to use speaker notes to help provide context to each slide. Speaker notes are limited to 200 words per slide. This does not include text already on the slide.

All submissions must be in .pdf format. Before submitting, teams should double-check to ensure that their .pdf version includes any speaker notes.

JUDGING

A panel of NAR judges will review presentations and score them out of 120 total points, based solely on how well the presentations address the questions in each of the following six equally weighted categories:

1. Explain your rocket. How did your team reach this design? What are the dimensions, construction materials, weight, and motor type selected, and how were these decisions decided?
2. Teamwork. Teamwork is critical in the aerospace industry. How did each member of the team contribute to your efforts, such as rocket design, construction, flight testing, or other elements of the team's operation, including outreach, fundraising, and the writing of this presentation?
3. Rocket science – How did your team do the tradeoffs among rocket drag, weight, and motor selection to try to achieve the altitude performance target in your initial design? How did you select parachute size? How did you account for different weather conditions at the time of launch in your plan to achieve the performance targets?
4. Flight testing – How did your team use flight data collection and analysis to refine your approach to the mission and make the adjustments after flights to try to achieve a better score? How did you intend to make adjustments to the rocket at the Finals, depending on whether the target altitude was 765 feet or 815 feet for your first flight there? Does the presentation document at least three flights (successful or not) with a 2025 rules-compliant rocket?
5. Lessons learned – What lessons did you learn from your experience about how to do a team-based engineering design and construction project, and how would you change your approach for future competitions?
6. Presentation Quality. Were the slides numbered, uncluttered, not excessively wordy, and present information clearly? Did they tell a coherent end-to-end story and cover the five key subjects (above) of the judging? Did they comply with format and content requirements and use grammatical English with proper spelling? Did they use appropriate techniques to display data? Did the speaker notes relate to and clarify the material on the slides without merely repeating it?

Following this initial scoring, the top-ranked five teams will be invited to do a live (online) 15-minute presentation and 10-minute question & answer session to this panel of judges on the afternoon of May 3, 2025 between 2pm and 5pm EST. Slides cannot be altered between submitting and the live presentation. Your team should not enter this competition unless you can commit to have at all team members present at the final oral presentations if your team is selected.

Teams that are concerned about accurately referencing rocketry fundamentals should go to our [Resources](#) page. There, a wealth of videos, articles, and handbooks cover many aspects of rocketry that you'll need to reference in your presentation if you want to succeed.

PRIZES

The first place team will be awarded \$3,000 along with a commemorative plaque. The second place team will receive a \$1,500 prize, and a \$500 prize will be awarded for the best performing team which has never competed in the American Rocketry Challenge before.

SUBMISSIONS

All entries are due Sunday, April 6, 2025 at 11:59 PM Eastern.

Live presentations for the top 5 submissions will be held on Saturday afternoon, May 3, 2025.

Winners will be announced at the Finals award ceremony on May 17.

Winners do not need to be present at the Finals ceremony to win.