

Team Engineering Challenge – Timetable

SkillsUSA Wisconsin State Leadership and Skills
Conference 2025, Madison



Tuesday, April 1, 2025

Time	Activity
2:45 PM	Arrive at venue. Ensure no phones/devices are taken inside.
3:00 – 3:30	Written test on user-centered engineering design (focus on five stages of design).
3:30	Receive problem statement and list of next-day materials. Each team is assigned one of two products to design.
3:45 – 4:15	Conduct user interviews: Each participant must interview at least 3 people from 3 different teams in the <i>other</i> group.
4:30 – 6:00	Begin collaborative design work using the provided worksheet.
6:00	Dismissal. Teams take their worksheets/packets with them to review overnight.

Wednesday, April 2, 2025

Time	Activity
7:45 AM	Arrive. Each table has an identical bag of building materials.
8:00 – 10:00	Build the product based on design plans from Tuesday.
8:00 – 10:00	Design Justification (to judges): Each team must briefly visit judges (5 mins) to explain design decisions and user input.
10:30 AM	Return to original “users” for feedback on the built prototype.
10:30 – 12:30	Final testing and design reflection (written reflection plus product testing).
12:30 PM	Contest ends. Results will be announced soon afterward.

Quick Reference for Contestants & Advisors

1. Arrivals & Devices

- **Tuesday by 2:45 PM:** Be at the venue, and ensure no phones/devices are brought in.
- **Wednesday by 7:45 AM:** Again, arrive on time; building begins promptly at 8:00 AM.

2. Written Test (Day 1)

- **Time:** 3:00 – 3:30 PM on Tuesday.
- **Content:** User-centered design principles (recall the five stages of design).

3. Problem Statement & Materials (Day 1)

- **3:30 PM:** Problem statement is distributed. Each team is assigned one of two products to design. A list of materials will be provided, and the materials will be available the next day.

4. User Interviews (Day 1)

- **3:45 – 4:15 PM:** Every team member must interview at least 3 people from the other group.
- Use these interviews to inform your design choices (understand user requirements).

5. Design Work (Day 1)

- **4:30 – 6:00 PM:** Work with your team on the design worksheet. You will show these to the judges on Day 2.

6. Building & Justification (Day 2)

- **8:00 – 10:00 AM:** Construct your product with the provided materials.
- **Judges' Booth:** Sometime between 8:00 and 10:00, spend about 5 minutes justifying your design decisions and user-centered approach.

7. User Feedback & Testing (Day 2)

- **10:30 AM onward:** Get feedback from your “users.”
- **10:30 – 12:30 PM:** Official product testing plus a written design reflection.

8. Completion & Results

- **By 12:30 PM:** All final tasks are done.
- **Results:** Announced shortly after 12:30 PM on Wednesday.

REMEMBER:

- Bring pens/pencils/scratch sheets of paper for your design work
- Bring a resume of each team member
- Items categorized as tools must be returned without damage
- Wear business casual and/or school/SkillsUSA clothing, and practice safety at all times.