



## 2020 State Contest

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### TEAM ENGINEERING CHALLENGE

#### Description

This contest will allow SkillsUSA California members to demonstrate their ability to work together to solve a problem. Contestants will design and implement a project based on requirements using the provided materials within the allowed amount of time.

**Note:** Please check the SkillsUSA National website for updated contest information and the SkillsUSA National Technical Standards <http://updates.skillsusa.org>

#### Clothing Requirements

Class E: Contest specific — Business Casual

- Official SkillsUSA white polo shirt
- Black dress slacks (accompanied by black dress socks or black or skin-tone seamless hose) or black dress skirt (knee-length, accompanied by black or skin-tone seamless hose)

[Clothing Classifications](#)

#### Scope of the Contest

1. Contestants will be identified by number only.
2. The team written test will be taken during the pre-contest briefing.
3. The technical committee will provide each team with the problem and the contest supplies at the time of the pre-contest briefing.
4. Each team's solution will be constructed on-site.
  - a. Construction is only allowed in the contest area and during the contest times as presented in the pre-contest briefing.
5. Contest judges will interview each team as a part of the contest.
  - a. Team interview time slots will be available during the pre-contest briefing.

#### Skill Performance

The demonstration is a presentation of an occupational skill accompanied by a clear explanation of the topic through the use of examples, experiments, displays and practical testing operations.

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### **Contest Guidelines**

The Team Engineering Challenge contest will allow SkillsUSA members to demonstrate their ability to work together to solve a problem.

1. The challenge will be selected from an area such as, but not limited to:
  - a. Transportation
  - b. Communications
  - c. Construction
  - d. Manufacturing
  - e. Biotechnology
  - f. Engineering
2. The contestant's advisor/instructor must attend the mandatory orientation meeting with the contestant.
3. Contestants will not take the skills-related written or professional development test as outlined in the general regulations.
4. In the event of a tie, the tie will be broken using the options below, in order.
  - a. Solution: Performance (highest score from team rubrics)
  - b. Interview: problem-solving/teamwork
  - c. Written test score

### **Equipment and Materials Supplied by contestants**

1. Drawing equipment (team's choice, e.g., ruler, straight edge, t-square, triangle, scale, pencils, pens, compass, etc.)
2. Safety glasses
3. Calculator
4. Scissors
5. Exacto knife or equivalent
6. Coloring/writing utensils (markers, crayons, colored pencils, etc.). Paint is not allowed
7. Students are not allowed materials that will add to their prototype, e.g., tape, glue, paper, staples, paper clips, etc.

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8. Other tools as listed on the contest update page of the national website ([updates.skillsusa.org](https://updates.skillsusa.org)).

### **Equipment and Materials Supplied by SkillsUSA California**

All tools, materials, and supplies necessary to solve the contest problem (e.g., hacksaw, glue guns, cordless drill, etc.) *except those items listed under contestant supply requirements.*