TEAM ENGINEERING CHALLENGE
(Middle School Only)

Contest Description

A team of 3 contestants will demonstrate excellence and professionalism in the areas of creative and critical thinking skills and the decision-making process, to solve a problem. Students must design an engineering project to solve a problem. The contest will require creativity, innovation, teamwork, and problem-solving skills. Students will be judged on design development, implementation, and presentation of development. Scoring is based on problem solving and teamwork, prototyping and construction, and solution performance. Students will present their project live over the zoom platform in lieu of an in-person competition.

Eligibility

This contest is open to active SkillsUSA members enrolled in a middle school chapter (grades six through eight). A team consists of three students from the same local chapter.

Regional Competition

The regional competition will consist of the following:
1. Submission of an engineering notebook
2. Online Presentation of project over zoom

Students will compete in this competition live over the Zoom platform on February 20, 2021. Teams should be ready to present at their scheduled time. The teams schedule will be emailed to the advisor/contestants by Friday, December 11, 2020. Changes cannot be made to scheduled time slots. Notebooks and resumes must be submitted to SkillsUSA California by **February 6, 2021** (details to follow).

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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. Teams can decide the problem they are trying to solve and together build a project to solve that problem. Teams will present their engineering project to the judges live over Zoom.

1. The challenge can be selected from an area such as, but not limited to:

      a. Transportation

      b. Communications

      c. Construction

      d. Manufacturing

      e. Biotechnology

      f. Engineering

Materials Supplied by SkillsUSA CA

- Timekeeper
- Judges

Materials Supplied by Student:

- All materials need to complete engineering project
- Engineering Notebook
- Computer with high-speed internet capability and camera to use applications such as Zoom. The minimum recommended internet bandwidth speeds for joining Zoom meetings, accessing on-demand curriculum and other online operations is 2.0 Mbps up and down. You can test your current internet speeds by following this link: https://www.speedtest.net/. Allow the page to load and click on GO.

Clothing Requirements

Official Dress is NOT required for Regionals. Clothing must be unbranded with no words, images, or logos. SkillsUSA or SkillsUSA California attire is recommended.

All SkillsUSA California contest projects are subject to change due to any unforeseen facility, staffing or site-related issues. Please use these materials as a reference to prepare students for the potential contest project. SkillsUSA California regional and state contest projects are developed by state technical committee members to align with the national technical standards.

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Note: Check the National Contest Guidelines and/or the updates page on the SkillsUSA website and the SkillsUSA California Competitive Events page:

- **www.skillsusa.org/compete/updates.shtml**
- **https://www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/**
- **https://www.skillsusaca.org/competitive-events-2**

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