



**SkillsUSA California
Engineering Technology and Design
2018 Regional Contest**

Description: A team of three students demonstrates their ability to design an innovative engineering project and present those ideas along with a display and live model. During the presentation, students are judged on their performance as a professional team, presentation of their project to a panel of judges from the engineering field, their storyboard presentation model, and the overall effect of the presentation. Presentation should take no less than 7 minutes and no more than 10 minutes.

State Competition: You will be judged on the following areas:

- Prototype-Complete/Design/3D Model
- Prototype-Materials
- Prototype-Ergonomics
- Prototype-Analysis (Cosmos)
- Prototype-Aesthetics
- Presentation - Information
- Presentation - Clear Communication
- Presentation - Calculations
- Presentation - CAD Drawings/3D Models
- Presentation - Cost Analysis
- Storyboard - Gantt Chart
- Storyboard - Professionalism
- Storyboard - Physical Storyboard
- Q & A - Prototype/Process
- Q & A - General Knowledge
- Q & A - Professionalism
- B & I - Marketability
- B & I - Involvement
- B & I - Resourcefulness
- B & I - Data & Information
- Overall Effect - Synergy Amongst Content
- Overall Effect - Accurate & Professional

Be sure that you have a physical model (prototype). During your presentation it is expected that you will demonstrate how or what your prototype does.

1. Resource for Gantt chart would include www.gantt.com
2. Resource for industrial review: Contact a local engineer or industry specific expert for the project you are designing and ask them to validate your project periodically while it's in progress as well as upon competition, this validation must be on company letterhead and included in your presentation materials.
3. During your engineering process include details on materials that you selected, ergonomics, manufacturing analysis, construction aesthetics and development of your prototype.
4. On the day of competition you will be expected as a team to solve a problem presented by the judges.

Contest Requirements:

1. Provided by SkillsUSA:
 - One 30"x72" table
 - One 10' extension cord
 - One Six-Outlet Surge Protector
 - One electrical 120 Volt (15 Amp) outlet
 - Projector and Projector screen

2. Materials provided by Contestants:
 - Handouts
 - All visual aids (Marketing materials)
 - Résumés
 - Physical Project (Prototype)
 - Presentation (PowerPoint, Laptop)
 - Gantt Chart
 - Storyboard

**This represents a digest of the original standards for this contest except for the time limits. Complete standards can be found in the SkillsUSA National Standards.*