



# Engineering Technology Design

## Career Competition

**Career Cluster:** Manufacturing/STEM

**State Qualifying Event:** Yes

**National Contest:** Yes

**Participation:** Teams of 3

### Competition Description

To recognize an outstanding engineering design project that has been developed by a three- member team of engineering or technology students. The student team will present its innovative idea along with a design board, a design prototype and an engineering notebook.

### Tasks To Be Evaluated

This competition adheres to the National Technical Standards, please review competition guidelines and requirements.

There will not be an Onsite Problem-Solving Activity portion at the state level.

### Clothing Requirement

#### National Requirement:

##### Class A: SkillsUSA Official Attire

- Official SkillsUSA red blazer or official SkillsUSA red jacket
- Button-up, collared, white dress shirt (accompanied by a plain, solid black tie or SkillsUSA black tie), white shirt (collarless or small-collared) or white turtleneck, with any collar not to extend into the lapel area of the blazer, sweater, windbreaker or jacket
- Black dress slacks or black dress skirt (knee-length at minimum)
- Black dress shoes

#### State Requirement:

SkillsUSA Official Attire or Business Professional Attire.

### Provided by Competitor

- Design Prototype: The design prototype cannot be hazardous in any way. If the prototype is not conducive to be presented in an indoor facility, please notify the SkillsUSA IL headquarters in advance so other arrangements can be made. Design prototypes must be transported and set up in the competition area during the orientation meeting.
- Design Board
- Engineering Notebook
- Industrial review of engineering design
- One laptop computer or tablet
- One 6' multiple-outlet surge protector
- All competitors must create a one-page resume.

### Provided by Technical Committee

- A space for the design prototype and design board that is no bigger than 10'x10'
- One standard 120-volt electrical outlet
- One table
- One data projector to be used if needed by the competing teams.