



# Team Engineering Challenge

## Career Competition

Career Cluster: Manufacturing/STEM

State Qualifying Event: No

National Contest: Yes

Participation: Teams of 3

### Competition Description

This competition is designed to evaluate and to recognize outstanding students for excellence and professionalism in the areas of creative and critical thinking skills and the decision-making process, to solve a problem. The competition is intended to foster creativity, innovation, teamwork and problem-solving skills.

### Tasks To Be Evaluated

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

### Clothing Requirement

#### National Requirement:

#### Class E: Competition Specific — Business

#### Casual

- Official SkillsUSA white polo shirt
- Black dress slacks or black dress skirt (knee-length minimum)
- Black closed-toe dress shoes

#### State Requirement:

#### National Requirement OR

- White polo shirt or button-down dress shirt (other colored polo/dress shirt will be subject to deductions)
- Black dress slacks or black dress skirt (knee-length minimum)
- Black, closed-toe dress shoes.
- Any embroidered names or school patches must be covered, if applicable.

### Provided by Competitor

- Safety glasses and side shields per competitor
- One (1) roll 3/4" masking tape
- Twelve (12) 3x5 inch index cards
- Twelve (12) Popsicle sticks or tongue depressors
- Six (6) 8 1/2" x 11" sheets of printer paper (20 pound bond)
- Three (3) feet of string
- Six (6) drinking straws
- Ten (10) #1 paper clips
- Adhesives (Aerosol and electric applicators are not allowed)
- A bottle of Uncure or Debonder is recommended
- Rubber bands
- Straight pins
- Clamps
- Cotton balls
- Cutting devices; none may be electric
- A cutting surface that prevents tabletop marring
- Rulers, straightedges, and/or measuring scales
- Abrasives sheets, sponges, boards
- Marking devices (pens, pencils, etc.) and sharpener
- Sheet of wax paper
- Pliers, wrenches, nut drivers, as needed



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### **Provided by Technical Committee**

- All tools, materials, and supplies necessary to solve the competition problem (except those items listed for competitors). Such items may include hack saw, glue guns, electric drill
- All necessary information and furnishings for judges and technical committee