

36th Annual Student Career Days
March 22 – 25, 2012
Kansas State University

WOOD CONSTRUCTION

Description: A two-person team (maximum of one per school) will demonstrate proficiency in constructing a wooden structure as shown on plans and diagrams. The team must display competency in following a plan, selecting and using hand tools, safe use of power tools, material efficiency, cutting, nailing, bolting, selection and application of screws, squaring, leveling, drilling, plan completion and clean up. All participants wishing to compete will take a qualifying exam on Friday. The combined score of both participants will be used to determine participation in Saturday's event.

Time: 1 hour and 50 minutes

Limits: There is no limit to the number of individuals that may participate in the written exam. The number of individuals participating on Saturday will be limited to 40.

JUDGING CRITERIA

Points: 100 possible points per team member; 200 possible points towards the team score; each team member will receive half of the team points for their individual scores.

The written exam is used for qualification only and does not count towards the final event score. Points will be assigned based on the following criteria:

1. Structural soundness (30%)
2. Neatness and aesthetics (25%)
3. Completeness and accuracy in carrying out the problem (25%)
4. Safe use of tools and equipment (20%)

Time will only be used as a tiebreaker.

Students are required to bring the following materials to the event: Gloves, safety glasses, ear protection, two sharpened pencils with erasers, and scratch paper. Students are required to wear long pants, long-sleeved shirts, and hard-soled shoes or boots. Note: Teams are required to use the tools provided in the toolbox by the sponsor. No other tools will be allowed.

Sponsor is required to supply the following materials for the event:

- All materials required as detailed in the plan for constructing the wooden structure
- 60 copies of the construction plan with instructions
- One toolbox for each team (see below for list of items in toolbox)
- Stopwatches
- Sufficient number of judges and event monitors
- Any other items deemed necessary for this event

Items included in toolbox: 3/8" electric drill, 1/4" spade drill bit, 50' outdoor electric extension cord, 7 1/4" electric circular saw, 25' tape measure, 9" level, 7" carpenter's speed square, 7/16" combo wrench, and combination Phillips/slotted screwdriver bit.