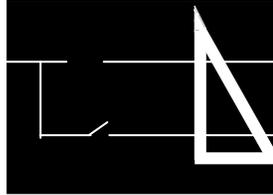


Oklahoma Architectural Drafting Guidelines



PURPOSE:

To evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of architectural drafting.

FIRST, refer to Oklahoma Policy and Procedure Manual.

CLOTHING REQUIREMENT:

Original/Official SkillsUSA Dress less jacket (white shirt, black tie, black slacks/skirt, black belt, black shoes, black socks/black or nude hose)

OR

New Official SkillsUSA Regulation Attire for Drafting Contest (White SkillsUSA polo, black slacks/skirt, black belt, black shoes, black socks/black or nude hose).

Contestants should **NOT** wear clothing with any school identification visible to the judges. Those contestants wearing program uniforms will need to cover all identifying patches.

ELIBILITY:

Open to active **SkillsUSA** members enrolled in programs with architectural drafting as the occupational objective.

EQUIPMENT:

1. Supplied by the architectural committee:
 - a. The architectural drafting work station will have a work area for reference material, a space for a personal computer and a chair.
 - b. One (1) 110-volt electrical outlet.
 - c. Output hardware – plotter or printer.
 - d. All necessary information and furnishings for judges and technical committee.

2. Supplied by the contestant:
 - a. A personal computer, monitor and input devices *or* a laptop computer.
 - b. Architectural software of choice. Software must be able to produce a PDF file.
 - c. Each contestant will be required to bring a 25' extension cord and a power strip.
 - d. Students may bring published CAD drafting reference books, tables and software manuals. Reference materials must not take up more than one (1) cubic foot of space and may not be shared between contestants.
 - e. Battery-operated calculator.
 - f. One USB drive, 4MB minimum.
 - g. CAD software should be pre-loaded and configured on the computer.
 - h. Symbols libraries, add-on packages, and additional productivity tools may be used in the contest.

NOTE: The setup and configuration of all contestant-provided equipment will be the responsibility of the contestant. At the conclusion of the contest, when the judges permit it, contestants and advisors will be allowed into the contest area to remove their equipment. **Positive identification will be required.** Contestants failing to remove their equipment as directed **WILL BE DISQUALIFIED.**

SCOPE OF CONTEST:

1. The contest will include ONLY computer-aided drafting (CAD) skills. Judging will be based on accuracy and productivity. A written text covering basic skills and knowledge in both traditional drafting and CAD will be given. Contestants will demonstrate their ability to perform CAD skills selected from the following list of competencies as determined by the technical committee.

Competencies to be demonstrated may be selected from the following:

1. Presentation of alternative designs
 2. Isometric pictorial views
 3. Interior perspective views and traffic patterns
 4. Exterior perspective views
 5. Floor plan with variations
 6. Various elevations
 7. Landscapes
 8. Site layouts with grade elevations
 9. Basement plan
 10. Foundation plan
 11. Joist framing plan
 12. Roof framing plan
 13. Plumbing plan
 14. Electrical plan
 15. Construction details and plan
 16. Complete dimensions
 17. Window and door detail
2. Preparation of drawings include proper dimensions and line type selection according to current drafting standards.
 3. During the contest, the contestants will work independently. No assistance will be given by other contestants, instructors, or observers. Limited technical assistance for computer software malfunction may be given by contest judges/technical committee members.
 4. Contestants will each be given the same amount of time to accomplish the problem. Everyone will begin at the same time and no one will be allowed to work past the contest conclusion.
 5. Each contestant will be responsible for establishing plotting procedures at the computer and for plotting their work to a PDF file on a USB drive.

6. Judging criteria are general in nature and will be done from plotted drawings only. Specific criteria will be based on the demonstration of competency in those elements of accuracy and productivity included in the contest problem.