



Architectural Drafting (CAD) (AD)

Architecture and Construction

Skilled and Technical Sciences Contests

State Qualifying Conference Contest Information

State Qualifying Event: Yes

National Contest: Yes

Participation: Individual

Contest Description

Competitors use their drafting skills to solve an architectural problem. The problem includes a written test, a hand sketch, and either computer-generated or board-drafted drawings. The competition tests the competitors' problem-solving abilities, not simply their CAD skills.

Contest Overview

The contest will evolve all or some of the following areas:

- Floor plan
- Front, left side and rear elevations
- Electrical plan
- Square footage calculations
- Door and window schedules

Drafting competitors must be familiar with exporting/printing their work in a portable document format (PDF). Most software programs have an integral "Print to PDF" option or a PDF driver loaded into their printer options. If not, there are several open source PDF writer programs available for free online.

Each Contestant Will Need to Provide

- Each competitor will need to bring their own computer with software.
 - Proof of licensing for every software program installed on the contestant's computer must be provided.
 - At the State Qualifying Conference – South (Granite City, IL) computers with AutoCAD will be available for competitor use.
- Students may bring published reference books and tables such as Architectural Graphics Standards, etc.
 - Note: Internet access and web searches are prohibited
- Battery-operated calculator (if desired)
- Multi-receptacle power strip

Material and Equipment Provided

- Architectural drafting work station for each contestant consisting of a table with a work area, space for reference material, space for a personal computer and a chair.