



**Technical Drafting (CAD)  
(TD)**  
Architecture and Construction

Skilled and Technical Sciences Contests

State Qualifying Conference  
Contest Information

---

State Qualifying Event: Yes

National Contest: Yes

Participation: Individual

**Contest Description**

This competition evaluates competitors' preparation for employment and recognizes outstanding students for excellence and professionalism in the field of technical drafting. The competition will focus on the solution of industry-developed problems by applying appropriate technical drafting skills and tools, including computer-aided drafting (CAD).

**Contest Overview**

Within three (3) hours, the contestant will be responsible for creating four (4) technical drawings, three (3) orthographic projection drawings fully dimensioned, and one (1) assembly drawings with parts list. The contestant will use "B" sheets for their drawings.

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.
- Machinery's Handbook and a maximum of three additional published reference books
  - Note: Internet access and web searches are prohibited
- Battery-operated calculator (if desired)
- Multi-receptacle power strip

**Material and Equipment Provided**

- Technical 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.