

b.

## 2012 MICHIGAN SkillsUSA CHAMPIONSHIPS Task and Materials List

SKILL OR LEADERSHIP AREA: Technical Drafting

### CONTEST RULES:

1. Once the contest begins no technical assistance will be given to the contestants. Only general instructions on contest procedure will be given.
2. Contestants must be dressed business casual *or they will lose points*.
3. No electronics other than your computer. That means no cell phones, head phones, mp3 players, iPods, GPS modems, radios, etc. – nothing wireless – no flash drives or memory sticks. All of the above will be monitored and anyone caught using these items will be disqualified.
4. Contestants using CAD software other than provided by Lansing Community College must give the software/computer to LCC two weeks prior to contest. This will give officials time to install, set-up and test their software/computer. This requirement is so that non-standard software will meet the contest performance outcomes requirements before the contest date.
5. Contest drawing requirements *may* include the following:
  - a. **Model** - create a model from an actual part given to the contestant, which is to be measured and free hand sketched before modeling. This model will be left on the contestant's computer screen.
  - b. **Assembly** - create assembly drawings from various detail drawings. May include revisions, which must be notated correctly. More than one view may be included per sheet. Views should be spaced evenly and drawn to scale as well as ballooned / called out with appropriate numbers.
  - c. **Design** - given drawings/specs of certain parts, mating or corresponding part(s) must be designed and drawn (Le., given A and C, must design B).
  - d. **2D Detailing** - given a large assembly drawing, contestant must pull out various parts and detail for manufacturing; details must be completely dimensioned and documented. Contestant may be required to pull out 3D solids and convert to 2D. Contestant may have to apply revisions.
  - e. Judges will evaluate only detail drawings. 3D modeling will **not** be considered on detail drawings.

### CONTEST INFORMATION:

1. Approximately 4-5 hours will be allowed for the entire contest (free-hand technical sketching and computer). A specific time limit will be determined by the technical committee and given to the contestants during the contest orientation. Sketching and taking notes during the contest is permitted.
2. **Contestants should report to the competition area 30 minutes prior to the contest start time listed in the program.** Contestants finishing early will gain no advantage nor receive bonus points. However, it is suggested that the contestants remain in the designated area until their plots are completed. Then contestant **MUST** leave the contest area.
3. Contestants must be able to prepare their drawings for plotting. **Contestants will plot their drawings.** Contest officials may assist with plotting the drawings.
4. **FILE MANAGEMENT IS THE RESPONSIBILITY OF THE CONTESTANTS.**
  - a. NO pre-drawn CAD files are allowed unless it is part of the software package. Only software-provided library files will be allowed.
  - b. **No zip, flash, floppy, or CD files are allowed.**
5. Contestants may bring published reference books including software manuals, technical drafting textbooks and Machinery's Handbook. Student notebooks and copied materials are not allowed. 1 cubic feet of space supplied.
6. Contestants **must** bring the following items with them to the contest site: calculator,

pencils, calipers, mechanical ruled scale and 1-page resume submitted online at <http://www.skillsusa.net/newresume/>. *(Note: No other drafting equipment is required except for the items previously listed.)*

7. The contest will follow SkillsUSA National guidelines. Non-compliance with contest rules may result in disqualification.
8. State contest project will be similar to last year's National contest project. Each competing students should be familiar with last year's national contest project.

**All questions and potential changes must be addressed before April 1, 2012!**

Revised 1/10/12

# SCORECARD Technical Drafting\*

Items Evaluated	Possible Points	Contestant Number			
<b>Detail Drawings 1, 2, 3, 4 and 5</b>	<b>500</b>				
<b>Detail Drawing Criteria - Dimensioning</b>					
<b>Detail Drawing Criteria - Title Block Data</b>					
<b>Detail Drawing Criteria - Neatness/Quality</b>					
<b>Detail Drawing Criteria - Weld Symbols</b>					
<b>Detail Drawing Criteria - Geometric Dimensioning and Tolerancing</b>					
<b>Detail Drawing Criteria - Bill of Materials</b>					
<b>3D Model</b>	<b>100</b>				
<b>Sketch</b>	<b>50</b>				
<b>Title Block-Written Directions Followed</b>	<b>50</b>				
<b>Assembly Drawing</b>	<b>300</b>				
<b>Résumé Penalty</b>	<b>0 or -50 only</b>				
<b>Clothing Penalty</b>	<b>0 to -50</b>				
<b>Time Penalty</b>	<b>0 to -50</b>				
<b>Total Possible Points</b>	<b>1000</b>				

\* Actual scorecard will reflect the problem.

**Date:**

---

**Judges' Signatures:**

---



---



