

2017 MICHIGAN SkillsUSA CHAMPIONSHIPS Task and Materials List

SKILL OR LEADERSHIP AREA: Technical Drafting

CONTEST SPONSOR: DASI Solutions



CONTEST LOCATION:

Amway Grand Plaza Hotel
187 Monroe Avenue NW
Grand Rapids, MI 49503, US
(616) 774.2000
<http://www.amwaygrand.com/>

RESUME:

Each student must submit a one-page printed resume before the contest start at the contest site (present to contest coordinator, not judges). The resume is no longer submitted online. This is the only time that resumes can be turned in. Failure to do so will result in a 10 point penalty. These need to be given to coordinator when they check in for competition.

LUNCH:

Lunch will be provided for all contestants and their advisors thanks to DASI Solutions.

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 as follows **or they will lose points**:
 - White shirt (either dress or polo-style), no t-shirts
 - Dark dress slacks
 - Dress socks
 - Dress shoes
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 must bring a laptop with their design software loaded.** Contestants **must** bring their own hardware and software.
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 (i.e., 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.
 - f. Contest Completion – print in ‘PDF’ format to 8½” x 11” sheets, text must be legible.

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. Resources must take up less than 1 cubic feet of space.
6. Contestants **must** bring the following items with them to the contest site: calculator, pencils, calipers, mechanical ruled scale and 1-page resume to be submitted at the start of the contest. (*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 and /or an individual project that relates to our manufacturing industry.

All questions and potential changes must be addressed before April 1, 2017!

Individual Scorecard

Technical Drafting

Contestant Number _____

<u>Items to be evaluated</u>	<u>Possible points</u>	<u>Points Scored</u>
Detail drawings listed	150	
<u>On the test</u>		
Correct views	150	
<u>And rotation of views</u>		
Correct and proper	150	
<u>Dimensions</u>		
Material specs. On each	150	
<u>Detail, layout & neatness</u>		
Assembly drawing and	250	
<u>Bill of Material</u>		
3D drawings of details	100	
<u>and assembly</u>		
Title block with	50	
<u>Correct information</u>		
<u>Bonus points</u>		
<u>Written test if provided</u>	100	
<u>Deduction of points</u>		
<u>No Resume</u>	- 10	
<u>Dress</u>	up to - 50	
Late arrival	- 20	
<u>(Unless approved)</u>		