

**2017 SkillsUSA MICHIGAN CHAMPIONSHIPS  
TASK AND MATERIALS LIST**

**Skill or Leadership Area: Plumbing**

**CONTEST LOCATION:**

DeVos Place  
303 Monroe Ave NW  
Grand Rapids, MI 49503  
616.742.6500  
<http://devosplace.org/>

**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.

Time Allowed: 4 1/2 hours, maximum

Tasks to be performed:

1. Complete written test (Technical)
2. Look at diagram and observe instructions.
3. Determine lengths of pipes.
4. Cut copper pipes to specified lengths.
5. Cut plastic pipes to specified lengths.
6. Solder joints.
7. Notify judge when your task is complete.
8. You may NOT correct any mistakes after you have notified judge that you are done.

NOTE: "NO TENNIS SHOES, SHORTS, CUT-OFFS PANTS, SLEEVELESS SHIRTS OR BARE MID-RIFFS"

**Students Must Supply**

Propane torch and striker  
1 flat screwdriver  
1 Phillips screwdriver  
2 adjustable wrenches  
PVC cutter  
Ruler or tape measure  
#2 pencil  
Tubing cutter  
Solder  
Flux  
Glue & primer for PVC  
Claw hammer  
Abrasive for cleaning  
Level  
1 page resume

**Proper Dress for Trade**

Safety glasses - MANDATORY  
(with side shields or goggles)

**Optional Tools**

Paper towels  
Gloves  
Power screwdriver

## **Technical Committee Will Supply**

1) Lunch

### NOTE:

1. Each student must have all above tools or will be disqualified. No tools may be borrowed from another contestant.
2. Hard hats will be optional.
3. You may not use matches or a lighter to light your torch.

Presented by  
Mid-Michigan Mechanical Contractors Association (3MCA)  
West-Michigan Mechanical Contractors Association (WMMCA)

### Tentative Judges

Aaron Munoz, Limbach Company LLC  
Robert MacDonald, Emergent BioSolutions  
Brian McKay, Grand Rapids City Plumbing Inspector  
(Judges subject to change based on availability)

Revised 12/2/16

**SkillsUSA Michigan Championships  
RATING SHEET**

**PLUMBING**

This scale is to be used in categories with a double asterisk (\*\*) which doesn't include copper accuracy, leaks and general category.

EXCELLENT= 50, ABOVE AVERAGE = 35, AVERAGE= 20, POOR = 5

ITEMS EVALUATED	CONTESTANT NUMBER									
	possible points									
<b>DWV</b>										
**Accuracy	50									
**Installation	50									
**Grade	50									
**Alignment	50									
**Supports	50									
<b>SUB TOTAL</b>	250									
<b>COPPER</b>										
Accuracy ( -10 pts. for each wrong measurement +/- 1/8 inch)	80									
**Installation	50									
Leaks (-10 pts. for each leak)	120									
**Joint Preparation	50									
**Solder Joints	50									
**Supports	50									
<b>SUB TOTAL</b>	400									
<b>GENERAL</b>										
**Neatness of Overall Project	50									
**Workmanship	50									
**Safe & Clean Work Area	75									
**Proper Dress	50									
Written Test (5 pts per question)	125									
<b>SUB TOTAL</b>	350									
<b>TOTAL</b>	1000									

JUDGE'S SIGNATURE: \_\_\_\_\_