

2010 MICHIGAN SkillsUSA CHAMPIONSHIPS  
TASK AND MATERIALS LIST

Skill or Leadership Area: Plumbing  
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 cooper pipes to specified lengths.
5. Cut plastic pipe 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

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)

Judges

Robert E. Caltrider, Chairman Emeritus

Kirk Myers, Myers Plumbing & Heating, 3MCA Member

Chad Myers, Myers Plumbing & Heating, 3MCA Member

Martin Jipson, Plumbing & Mechanical Inspector, Delta Township

Dennis Rapson, Retired Plumbing Inspector, City of East Lansing

Frank Eirosius, Plumbing Inspector, City of Lansing

(Judges subject to change based on availability)

**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: \_\_\_\_\_