

**2019 MICHIGAN SKILLS USA CHAMPIONSHIPS  
TASK AND MATERIALS LIST**

**SKILL OR LEADERSHIP AREA: TEAM WORKS**

SITE

- PRESENTATION - Friday APRIL 5, 2019  
Amway Grand Plaza Hotel  
187 Monroe Avenue NW  
Grand Rapids, MI 49503, US  
(616) 774.2000  
<http://www.amwaygrand.com/>
  
- CONTEST – Saturday APRIL 6, 2019  
DeVos Place  
303 Monroe Ave NW  
Grand Rapids, MI 49503  
616.742.6500  
<http://devosplace.org/>

TASKS TO BE PERFORMED:

- FRIDAY’S PRESENTATION TEAM TIMES WILL BE POSTED
- 12:30 PM-5:00 PM
- TEAMS MAY DROP THEIR TOOLS OFF AT THE DEVOS PLACE ON FRIDAY 1PM – 5PM. OR AM SAT.
- SAT. TEAM WILL CHECK IN AT 8:00 AM- CONTEST WILL END AT 5:00 PM
- CLEAN UP AND TEAR DOWN 4-5 PM (ALL TEAMS WILL PARTICIPATE AND SCORED )

OVERALL TEAM RESPONSIBILITIES:

- ALL WORK WILL BE PERFORMED IN A QUALITY, PROFESSIONAL, AND WORKMANSHIP LIKE MANNER.
- COOPERATION AMONG ALL PHASES OF CONSTRUCTION IS NECESSARY.
- KEEP WORK AREA CLEAN AND FREE FROM HAZARDS.
- BECOME FAMILIAR WITH AND MAINTAIN SAFETY STANDARDS AT ALL TIMES.
- SAFETY PENALTIES WILL BE ASSESSED WITH GRADUATED TIME PENALTIES AS INFRACTIONS OCCUR. 3 INFRACTIONS SHALL CONSTITUTE DISQUALIFICATION. FIRST VIOLATION IS AN INDIVIDUAL 10 MINUTE TIMEOUT. SECOND VIOLATION IS A 15 MINUTE TEAM TIMEOUT. A THIRD VIOLATION IS A THIRTY MINUTE TEAM TIMEOUT OR DISQUALIFICATION AT THE LEAD JUDGES DISCRETION.

- WEAR SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES, AND APPROPRIATE WORK SHOES OR BOOTS.
- ALL CONTESTANTS MUST REMAIN AT THE CONTEST SITE UNTIL JUDGING AND CLEAN UP IS COMPLETED. FAILURE TO DO SO WILL RESULT IN DISQUALIFICATION.
- TEAMS WILL BE RESPONSIBLE FOR THEIR OWN LUNCHES AND DRINKS.
- A GROUP TEAM AREA WILL BE AVAILABLE FOR LUNCHES.
- TEAMS MAY NOT COMMUNICATE WITH ADVISORS OR SPECTATORS DURING COMPETITION. VIOLATIONS WILL BE HANDLED THE SAME AS A SAFETY VIOLATION.

#### SAFETY REQUIREMENT:

- BOTH THE INSTRUCTOR AND THE CONTESTANT CERTIFY BY AGREEING TO ENTER THIS CONTEST THAT THE CONTESTANT HAS RECEIVED INSTRUCTION AND HAS SATISFACTORILY PASSED AN EXAMINATION ON THE SAFE USE OF PORTABLE POWER TOOLS

#### TEAM MEMBERS:

- CARPENTER, ELECTRICIAN, MASON, PLUMBER.
- *All team members are required to have a 10 HOUR OSHA CONSTRUCTION SAFETY CARD prior to competition. To take the OSHA Certification test, go to: [www.careersafeonline.com](http://www.careersafeonline.com).*
- TURN IN INDIVIDUAL COPIES OF OSHA CARD AT PRESENTATION ON FRIDAY

#### SCOPE OF WORK:

- FRAME WOOD STRUCTURE, RAFTERS, STAIRS
- WIRE INTERIOR, AND EXTERIOR
- EXTERIOR BRICK AND BLOCK
- PLUMBING, PVC-DWV, COPPER, PEX SUPPLY LINE, TOILET , SINK, SHOWER
- PRESENTATION OF WORK PLAN

#### Carpentry:

Frame wood walls, 2x4, 2x6 and metal studs. Layout, cut and install gable, hip rafters and stair stringers.

**Electrical:**

Wire a service panel. Wire both fifteen and twenty amp circuits. Wire single pole switches and 3-way switches, GFI and convenience outlets, and lighting switch loops.

**Plumbing:**

Use PVC for DWV plumb lines. Use copper and PEX for freshwater supplies. Supply your own 1/2" and 3/4" crimp rings and crimping tool. Install frost proof sillcock.

**Masonry:**

Install outside or inside corner brick veneer at prescribed coursing. No story pole or dead heads will be allowed.

**TOOL LIST:**

- NO AIR TOOLS
- NO POWER MITER SAW
- NO ELECTRONICS , PHONES , I-PODS

**CARPENTRY:**

- ONE 6 FT. STEP LADDER
- SAW HORSES
- HAND SAW, CIRCULAR SAW
- FRAMING SQUARE
- HAND TOOLS
- TOOL BAG
- SAFETY GLASSES/PPE
- HARD HAT/PPE
- BROOM AND DUST PAN

**PLUMBING**

- PROPANE TORCH
- FIRE EXTINGUISHER (SMALL)
- WATER-SOLUBLE FLUX CONFORMING TO ASTM B 813
- LEAD FREE SOLDER, PVC GLUE AND PRIMER
- PIPE COMPOUND OR TEFLON TAPE
- ABRASIVE FOR CLEANING
- LEVEL, TUBING CUTTER, PVC CUTTER
- HOLE SAW
- HAND TOOLS
- PEX CRIMP TOOL
- HARD HAT/PPE

## MASONRY

- TROWEL
- BRICK HAMMER, BRICK SET
- BRUSH
- MORTARBOARD
- MODULAR RULE
- 2'- 4' LEVEL
- COFFEE CAN
- HAND TOOLS
- HARD HAT/PPE

## WIRING

- DRILL (CORDLESS OR ELECTRICAL)
- DIAGONAL WIRE CUTTERS, SIDE CUTTERS
- ROMEX STRIPPERS, WIRE STRIPPERS
- NEEDLE NOSE PLIERS
- SCREWDRIVERS
- HAND TOOLS
- HARD HAT/PPE

## NOTE:

- OTHER HAND AND POWER TOOLS MAY BE ADDED TO THIS LIST.

## ADDITIONS

- ALL STUDENTS SHOULD HAVE PENCIL, TOOL BELTS, SAFETY GLASSES, HARD HAT, TAPE MEASURE WORK BOOTS, ALONG WITH PROPER WORK ATTIRE FOR THE JOB
- YOU WILL NOT BE ALLOWED TO WEAR TENNIS SHOES, SHORTS, CUT OFF JEANS, SLEEVELESS SHIRTS OR HAVE BARE MIDRIFTS OR SHIRTS WITH SCHOOL NAMES OR CITIES.

MATCHING TEAM SHIRTS ARE PERMITTED WITH NO NAMES OR OTHER IDENTIFIERS (SCHOOL, TOWN, ETC.)

## PRESENTATION:

- TEAM PRESENTATIONS WILL BE HELD FRIDAY APRIL 5, 2019 STARTING AT 12:30
- AMWAY GRAND PLAZA HOTEL, GRAND RAPIDS, MI.
- DETAILED SCHEDULE WILL BE MAILED TO EACH ADVISOR AND POSTED ON THE WEB
- ALL STUDENTS WILL NEED A 1-PAGE RESUME THAT WILL BE TURNED IN AT THE BEGINNING OF THE PRESENTATION

- AT THE AMWAY GRAND PLAZA HOTEL ON FRIDAY
- TURN IN COPY OF OSHA CARD AND RESUME AT PRESENTATION ON FRIDAY

DETAILS:

- PRESENTATION WILL BE 3 TO 5 MINUTES IN LENGTH
- EACH TEAM WILL BE SENT DETAILS FOR PRESENTATION. THE FORMAT WILL BE THE SAME AS IN THE PAST
- power point presentations are not needed and in the past have hurt more than helped in the presentations.

Revised 12/21/18

## **Presentation for Team Build**

Students will be given a blue print. From this print, students will be asked to either:

1. Change the print to customers' needs for their new house.
2. This is a print from an existing home and the customer wants it remodeled.

During the presentation students will be evaluated on:

1. Did they follow instructions
2. Organization of plan or design
3. Foundation
4. Framing
5. Plumbing
6. Electrical
7. Presentation (did everyone contribute)
8. Demolition (If remodel)
9. Time Frame
10. Professionalism

15 Points in each area for a total of 150 points.

Revised 12/21/18

# SCORECARD TeamWorks

Items Evaluated	Possible Points	Team Number							
<b>Plumbing</b>	<b>175</b>								
<b>Electrical</b>	<b>175</b>								
<b>Carpentry</b>	<b>325</b>								
<b>Masonry</b>	<b>175</b>								
<b>Team Presentations</b>	<b>150</b>								
<b>Résumé Penalty</b>	<b>0 or -10 only</b>								
<b>Clothing Penalty</b>	<b>0 to -50 only</b>								
<i>Team Penalty (if competing with less than the required number of team members)</i>	<b>-100</b>								
<b>Total Possible Points</b>	<b>1000</b>								

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

**Judges' Signatures:**

_____	_____
_____	_____
_____	_____