

Teamworks



District 8 Competition

Monday, January 20, 2020

Keystone+Mountain+Lakes
Carpenters Training Center

652 Ridge Road
Pittsburgh PA. 15205
(412) 262-1830



Location Chair - John Brown
412-847-1944 or john.brown@beattietech.com



Teamworks Competition Overview

- Cell Phones or wearable electronics are not permitted at any time even if powered off.
- There are no official clothing requirements at the District level.
- **All competitors must wear trade appropriate clothing and safety equipment that follows ALL trade safety rules.**
- Resumes are not needed at the District level.
- If there is a question about the contest, please contact the SkillsUSA site coordinator.

Carpentry:

Contestants must provide all hand and power tools including but not limited to:

- Personal Hand Tools (Hammer, Tape, Chalk Line, Square, etc.)
- 2' and 4' Levels
- Portable Circular Saw
- Cordless Drill
- Framing Square
- Hand Saw
- Reciprocating Saw (optional)

Masonry:

Contestants must provide all tools including:

- Brick Trowel
- Jointer / Striker
- 2' and 4' Levels
- Brick Hammer
- Brick Set

Plumbing:

Contestants must provide:

- Tubing Cutter
- PVC Hand Saw, or Hack Saw
- Flux
- Solder
- Cleaning Tools

Electrical:

Contestants must provide all hand tools and power tools including:

- Wire Strippers
- Linesmen Pliers
- Needle Nose Pliers
- Screwdrivers
- Power Drill & Bits

***Students may bring more tools if they desire. Your school and The KML Carpenters' Training Center are not responsible for lost, stolen, or damaged tools.**



Teamworks Contest Description

Carpentry:

Construct walls on floor (provided by host school) as per floor plan.

Note: 6' wall is 24" O.C.

4' wall is 16" O.C.

Cover outside of walls with 7/16" OSB.

Note: 6' wall has OSB horizontal (4' high)

4' wall has OSB vertical

Masonry:

Build a brick corner, 5 courses high.

Note: Step back on 6' wall and end flush on 4' wall

Plumbing:

Rough in laundry supply box according to specifications on the drawing.

Note: Cap ends of copper lines for testing

DO NOT Knock out drain in the laundry

DO NOT Glue plastic fittings

Electrical:

Rough in and attach fixtures as per drawing.

3-way switches

One light fixture

One duplex receptacle

Note: Contest blueprints will NOT be given out before the day of competition. Please prepare based off the National Technical Standards. All work must meet standard practices and Codes.

Teamworks

Material List

(Provided by the KML Carpenters' Training Center)

- 9 2x4x12'
- 2 4'x8'x7/16" OSB
- 2 ½" Female T Headed fitting or Washer box
- 1 ½"x10' Copper pipe
- 3 ½" 90-degree copper elbows
- 1 4 in 1 fitting tool
- 1 2"x10' ABS pipe
- 1 2" P-trap
- 1 4" Round light box for light
- 3 Single work boxes for receptacle and switches
- 1 10' pc. Of 12-3 wire
- 1 15' pc. Of 12-2 wire
- 1 Light fixture porcelain
- 1 Receptacle
- 2 3-way switches
- 1 Teflon tape
- 1 Bag of mortar
- 1 Small box of wire staples
- 1 Small box of wire nuts
- 1 3 lbs. of 16d commons
- 1 3 lbs. of 8d commons
- Propane Torch

Teamworks

| Items Evaluated | Possible Points |
|------------------------|------------------------|
| Carpentry | |
| Wall plates | 10 |
| Wall layout | 10 |
| Wall orientation | 10 |
| Stud length | 10 |
| Nailing pattern | 10 |
| Walls square | 10 |
| Sheathing correct | 10 |
| Studs crowned | 10 |
| Corner detail | 10 |
| Safety | 10 |
| Total | 100 |
| Electrical | |
| Box location | 20 |
| Rough wiring | 20 |
| Fixture install | 20 |
| Fixture operation | 20 |
| Code followed | 10 |
| Safety | 10 |
| Total | 100 |
| Plumbing | |
| Fixture location | 10 |
| Drain installation | 10 |
| Water lines | 20 |
| Holes in studs | 10 |
| Solder joints | 10 |
| Plastic joints | 10 |
| System check | 20 |
| Safety | 10 |
| Total | 100 |
| Masonry | |
| Number courses | 25 |
| Layout | 15 |
| Plumb | 15 |
| Level | 15 |
| Joints struck | 10 |
| Brick cleaned | 10 |
| Safety | 10 |
| Total | 100 |
| Total Score | 400 |

Teamworks

| Items Evaluated | Possible Points | Teams | | | | | | | |
|--------------------|--------------------|-------|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Carpentry | | | | | | | | | |
| Wall plates | 10 | | | | | | | | |
| Wall layout | 10 | | | | | | | | |
| Wall orientation | 10 | | | | | | | | |
| Stud length | 10 | | | | | | | | |
| Nailing pattern | 10 | | | | | | | | |
| Walls square | 10 | | | | | | | | |
| Sheathing correct | 10 | | | | | | | | |
| Studs crowned | 10 | | | | | | | | |
| Corner detail | 10 | | | | | | | | |
| Safety | 10 | | | | | | | | |
| Total | 100 | | | | | | | | |
| Electrical | | | | | | | | | |
| Box location | 20 | | | | | | | | |
| Rough wiring | 20 | | | | | | | | |
| Fixture install | 20 | | | | | | | | |
| Fixture operation | 20 | | | | | | | | |
| Code followed | 10 | | | | | | | | |
| Safety | 10 | | | | | | | | |
| Total | 100 | | | | | | | | |
| Plumbing | | | | | | | | | |
| Fixture location | 10 | | | | | | | | |
| Drain installation | 10 | | | | | | | | |
| Water lines | 20 | | | | | | | | |
| Holes in studs | 10 | | | | | | | | |
| Solder joints | 10 | | | | | | | | |
| Plastic joints | 10 | | | | | | | | |
| System check | 20 | | | | | | | | |
| Safety | 10 | | | | | | | | |
| Total | 100 | | | | | | | | |
| Masonry | | | | | | | | | |
| Number courses | 25 | | | | | | | | |
| Layout | 15 | | | | | | | | |
| Plumb | 15 | | | | | | | | |
| Level | 15 | | | | | | | | |
| Joints struck | 10 | | | | | | | | |
| Brick cleaned | 10 | | | | | | | | |
| Safety | 10 | | | | | | | | |
| Total | 100 | | | | | | | | |
| Total Score | 400 | | | | | | | | |