

## 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



#### **Building Construction Competition Overview**

- Cell Phones or wearable electronics are not permitted at any time even if powered off.
- There are no of ficial 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 corrdinator.

#### 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)
- Drywall Mud Pan and Knives
- Drywall Saws

#### 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.



### **Building Construction Contest Description**

#### Carpentry:

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

Note: All walls are 16" O.C.

Cover outside of walls with 1/2" Drywall.

Note: Tape and first coat all seams

Install corner bead

#### **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

**<u>DO NOT</u>** 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 State Technical Standards. All work must meet standard practices and Codes.

## **Material List**

## (Provided by the KML Carpenters' Training Center)

- 9 2x4x8'
- 2 4'x8'x1/2" Drywall
- 1 8' Corner bead
- 1 Joint compound
- 1 Drywall tape
- 1 3 lbs. of 1-1/4" drywall screws
- 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 3 lbs. of 16d common nails
- 1 Small box of wire staples
- 1 Small box of wire nuts
- Propane Torch

Items	Possible Points			
Evaluated				
Carpentry				
Wall plates	10			
Wall layout	10			
Wall orientation	10 10 10 10			
Stud length				
Nailing pattern				
Walls square				
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			
10001	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			
Drywall				
Drywall install	25			
Screws depth	15			
Screws depth Screw location				
Corner bead	15			
Tape of joints	15			
	10			
First coat of joints	10			
Safety Total	10 100			
—	100			
<b>Total Score</b>	400			

Items Evaluated	Possible Points	Teams						
		1	2	3	4	5	6	7
Carpentry								
Wall plates	10	Name and the second						
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							
Dlumbing	+							
Plumbing Fixture location	10				-			
	10							
Drain installation	10							
Water lines	20							
Holes in studs	10							
Solder joints	10							
Plastic joints								
System check	20							
Safety	10							
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1 Otal	100							
<b>Total Score</b>	400							