



# Team Works

## ELIGIBILITY (Team of 4)

Open to a team of four SkillsUSA members enrolled in program(s) with building trades as the occupational objective. Team members must be from the same school.

## CLOTHING REQUIREMENTS

Official SkillsUSA khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles. (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.) **You must have safety glasses, leather work shoes or boots, work pants, and a work shirt with nothing descriptive of the school you are representing.**

*Note: At the district level if a student is not able to wear the official SkillsUSA attire he/she may wear an outfit that would be acceptable in their specific field of study and that complies with PPE. Please keep in mind that official SkillsUSA attire will be required at the state and national level.*

## EQUIPMENT AND MATERIALS SUPPLIED BY HOST

1. All carpentry materials required for projects will be supplied by the host school.
2. All masonry materials required for projects will be supplied by the host school.
3. All electrical materials required for projects will be supplied by the host school.
4. All plumbing materials required for projects will be supplied by the host school

## EQUIPMENT AND MATERIALS SUPPLIED BY CONTESTANT

1. All students must have a one-page, typewritten resume.
2. Proof of Training - signed
3. OSHA 10 card
4. All competitors must wear safety glasses, hard hats, safety shoes, and clothing appropriate for the construction field.
5. All participants must supply all hand tools and power tools needed for the competition in their respective trade. (see list below):

### **Carpenter:**

Claw hammer	Steel Tape (25' – 30')
Cat's paw	Carpenter's pencil
Combination Square	Miter/chop saw (optional)
4' Level	
Circular saw (electric or cordless)	
Framing square	
Pencil	
Zigzag ruler (6')	



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Chalk Box  
Utility Knife  
Extension Cord (25'-50')

## **Electrician:**

Hand tools  
Electric Drill - right angle  
Drill bit-for cables through studs  
Sabre Saw  
Hammer  
Continuity/Voltage tester

## **Plumber: Standard Plumbers Hand Tools**

Hand tools for copper tubing  
Hand tools for PVC pipe  
Reciprocating Saw  
Hole Saw for 2-inch PVC  
Torpedo level  
Drill Bits for ½ inch copper, ½ round file  
All materials needed for sweating of copper tubing (IE: grit cloth, flux, lead-free solder)  
All materials needed for installing PVC pipe (IE: PVC primer and Cement)  
PEX Crimp Rings

## **Mason:**

Trowel  
2' level  
4' level  
Concave Jointer  
Brick Hammer  
2' Steel Square  
Brush  
Modular Ruler  
Line & Line Blocks  
Carpenter's Pencil  
S-Jointer  
Chisels (cutting brick and block)

## **SCOPE OF THE CONTEST - (DEFINED BY THE NATIONAL COMPETITION REGULATIONS)**

*(District Competitions are meant to be a scaled-down version of National Competition. It is important for the students to participate in a competition that will reflect a cross-section of the industry skills needed to prepare them for the state and national levels)*



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## **KNOWLEDGE PERFORMANCE**

The competitors will be required to identify common carpentry, masonry, plumbing, and electrical hand tools.

## **SKILL PERFORMANCE**

The contest includes a team project assessing the ability to analyze a project drawing, write an action plan, perform skills in residential carpentry, plumbing, electricity and masonry and then professionally present the team project.

## **Safety Requirements**

All competitors must have proof of training forms. Two competitors from each team will be required to submit evidence that they are working toward an OSHA Certification prior to the competition.

The contestants are responsible for inspecting the tools supplied and ensuring they are in safe working condition. Further, they agree that SkillsUSA PA District 2 host school, teachers, and advisors are released from all responsibility for personal injuries resulting from their use.

Contestants will be removed from competition if proper training has not been provided and/or they are using the equipment in an unsafe **manner**.

## **Contest Guidelines**

1. Each team will be given the project drawing and will be given time to meet as a team, analyze the drawing and formulate an action plan.
2. The Team work strategy and completion of the various components of the project will be assessed. (Team members may assist with the various components as needed by fellow team members.)
3. Cleanliness of jobsite, timeliness of completion of the project and effective ordering of and inventorying tools and equipment will be assessed.

## **Standards and Competencies** – *(Summary of national technical standards list)*

1. Analyze and formulate an action plan after analyzing the project drawing
2. Perform effectively as team members
3. Perform carpentry skills by constructing floor & wall framing & laying out a rafter.
4. Perform plumbing skills by laying out and installing drains & water supply lines.
5. Perform electrical skills by laying out electrical installations.



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## Team Works Scoring Sheet

All areas will be judged on accuracy to detail, time management, workmanship, and cleanup.

Items Evaluated	Possible Points	Contestant Points
Written test- (50 pt test per competitor)	200	
Carpentry	200	
Plumbing	200	
Masonry	200	
Electrical	200	
	Subtotal = 1000	
No Resume	Deduction -10	
Safety Penalty	Deduction - 10	
Clothing Penalty	Deduction -5	
No OSHA 10 card	Deduction -40	
	TOTAL	

*Note: No cell phones or other electronic devices may be used at any time during a competition; this includes using a calculator function on a cell phone for competitions in which calculators are permitted.*

*Note: Scorecards should only be used as guidance. Changes may occur.*