

**2024 INDIANA SkillsUSA CHAMPIONSHIPS  
TASK AND MATERIALS LIST**

**SKILL OR LEADERSHIP AREA: PLUMBING**

**CONTEST LOCATION:**

AET Local 440 Training Center  
1521 Brookville Crossing Way  
Indianapolis, In 46239

**DATE:** April 20, 2024

**TIME:** 6:00 am concession opens

6:45 am load busses

7:00 am bus departs West Pavilion

7:30 am arrive at AET Local 440

7:45 am be in contest area

8:00 am contest begins

12:45 pm busses leave for West Pavilion

**CLOTHING REQUIREMENTS:**

- Work pants or jeans with no
- state t-shirt, other appropriate work clothing MINIMUM 2” SLEEVE
- safety work shoes
- NOTE: “NO TENNIS SHOES, SHORTS, CUT-OFFS PANTS, SLEEVELESS SHIRTS OR
- BARE MID-RIFFS”
- NO SCHOOL LOGO OR AFFILIATION ON CLOTHING.
- NO CELLPHONES IN CONTEST AREA

**\*AWARDS CEREMONY DRESS CODE\***

*A Dress Code will be enforced during the Awards Ceremony. To accept an award “on-stage”, the student must wear the “Official SkillsUSA Uniform”, State T-Shirt or the competition attire. NO SHORTS OR HATS!!!*

**ALL COMPETITORS MUST TURN IN THEIR OWN 1-PAGE SINGLE SIDE RESUME AT THE BEGINNING OF THEIR COMPETITION. IF NOT TURNED IT AT THIS TIME THERE IS A 10 PT DEDUCTION**

**PURPOSE:**

To evaluate each contestant’s preparation for employment and to recognize outstanding students for excellence and professionalism in the field of residential plumbing

**Students Must Supply**

- 1 PAGE RESUME
- Gloves
- safety glasses with side shields or goggles (Prescription glasses can be used only if equipped with side shields; otherwise, they must be covered with goggles).
- Optional PPE-ear protection and hard hat
- 25’ Tape measure
- Slip-Joint Pliers- similar to Channellock#420 or #430

## **SUPPLIED BY TECH COMMITTEE**

- ALL FITTINGS
- ALL PIPE
- ALL OTHER MATERIALS & SUPPLIES NEEDED TO COMPLETE THE PROJECTS
- All tools needed EXCEPT 25' tape measure and pliers (listed above)
- A DRAWING

### NOTE:

1. Each student must have all above tools or will be DEDUCTED POINTS. No tools may be borrowed from another contestant.
2. Representatives of AET Local 440 are in charge of the shop areas. Contestants are to follow their instructions regarding safety practices, safety gear, as well as safe and proper tool use, start and stop times, and clarification questions.
3. Observers will have designated seating in the lab spaces, and are expected to respect the contest rules in order to provide a fair competition for all.

## **PROCESS AND WORKFLOW**

- A. Each contestant will have two projects to complete, testing basic plumbing skills
  1. Underground PVC rough-in
  2. Copper soldering
- B. The time allotted for each portion is determined by the bus arrival and departure times, and will be announced at the beginning of the contest.
- C. The two projects are set up for a maximum of 4 contestants each. There is no benefit for early completion. The transition from one project to another will happen as a group, with EVERYONE switching at the same time.
- D. The decisions and scoring of the local 440 judges is final and is based on the 875 points system given by the State Director in addition to the test scores to equal 1,000.

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**2024 INDIANA SkillsUSA CHAMPIONSHIPS**  
**Plumbing Skills Contest#1**  
**PVC Underground rough-in.**

**Overview:**

Each contestant will be given a drawing with sufficient dimensions to perform a basic residential bathroom rough-in. The contestants will be given the same materials, fittings, tools & supplies to complete the task in the allotted time. The project will begin once the judge(s) have had time to explain the tasks and potential hazards. The contestants are encouraged to ask questions at this time, so that the group better understands the project. The finished project will be scored on dimensional accuracy, proper slope/grade, neatness, and efficient fuse of fittings.

**Identified Hazards in the sand pit:**

**Slips, trips, and falls while walking in heavy sand-**Common sense & be aware  
**Eye protection from airborne particles-** Safety glasses mandatory  
**Sharp edges/blades on saws-**Gloves mandatory  
**Chemical fumes from cement & primer-**Cross Ventilation and exhaust provided

**2024 INDIANA SkillsUSA CHAMPIONSHIPS**  
**Plumbing Skills Contest#2**  
**Copper project**

**Overview:**

Each contestant will be given a drawing with sufficient dimensions to perform a basic residential bathroom rough-in. The contestants will be given the same materials, fittings, tools & supplies to complete the task in the allotted time. The project will begin once the judge(s) have had time to explain the tasks, potential hazards, and give a brief demonstration on soldering. The contestants are encouraged to ask questions at this time, so that the group better understands the project. The finished project will be scored on the basis of a pressure test, dimensional accuracy, proper copper joint preparation, neatness, and proper workmanship.

**Identified Hazards in the Solder & Braze lab:**

**Hot work area-** Gloves mandatory- long sleeves recommended  
**Airborne particles, flying metals-** Safety glasses mandatory  
**Sharp edges/ cut hazard from copper pipe-**Gloves mandatory  
**Loud noises in shop area-**Hearing protection available