

**2023 INDIANA SkillsUSA CHAMPIONSHIPS  
TASK AND MATERIALS LIST**

**SKILL OR LEADERSHIP AREA:** \_\_\_\_\_ **SHEET METAL** \_\_\_\_\_

**CONTEST LOCATION:**

Carrier Corporation  
7310 W. Morris St.  
Indianapolis, IN 46241

**DATE:** Saturday April 15, 2023

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

**6:30 am- latest to arrive at West Pavilion**

**6:45 am- load buses on NW corner of West Pavilion**

**7:00 am-7:15 am- Bus leaves West Pavilion**

**7:30 am-7:40 am- Arrive at Area 31**

**8:00 am- Contest begins**

**12:00 pm- Contest ends**

**12:30 pm- Bus leaves Area 31 for West Pavilion**

**PURPOSE:**

To evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of sheet metal layout and fabrication.

**CLOTHING REQUIREMENTS:**

*NO SCHOOL LOGO OR SCHOOL AFFILIATION ANYWHERE ON CLOTHING or IT MUST BE COVERED COMPLETELY.*

- Official SkillsUSA khaki work shirt and khaki pants is not required but if you have it, please wear it or:
- Work shirt or conference t-shirt tucked in
- Work pants or jeans (no holes)
- Composite/steel toe shoes
- 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.)
- JEWELRY: No dangling jewelry. Rings to be removed or taped over. HAIR: Long hair to be tied tightly to scalp.

**\*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!!!*

***EACH COMPETITORS MUST PROVIDE A 1 PAGE RESUME' AT THE BEGINNING OF THE CONTEST, THERE IS A 10 PT. DEDUCTION IF ONE IS NOT TURNED IN AT THIS TIME. \*\*DO NOT PUT YOUR ACTUAL NAME ON RESUME, THESE WILL BE COLLECTED AT THE END OF THE COMPETITON\*\****

**EQUIPMENT AND MATERIALS:**

1. Supplied by the technical committee:

a. All necessary equipment, tools, materials and work benches.

2. Supplied by the contestant:

- a. Toolbox
- b. One each: Aviation M1, Aviation M2, Aviation M3 and combination or pattern tinner's snips
- c. 8" sheet metal worker's vice grips
- d. 8" or 10" regular vice grips
- e. 12" combination square with glass level
- f. 24" flat steel square
- g. 8" combination pliers
- h. One each: 6" and 12" straight-leg spring dividers
- i. Flexible steel tape measure
- j. Scratch awl
- k. Screwdriver set (minimum one slotted and one Phillips)
- l. One each: ball peen, setting and riveting hammers
- m. Wood, leather or rubber mallet
- n. Two hand groovers, one for 1/4" grooved lock, one for 5/16" grooved lock
- o. 36" straightedge
- p. Pop rivet gun
- q. Two wooden pencils
- r. Drive cleat turner
- s. Handheld calculator for written test
- t. Additional tools as desired, subject to approval of the technical committee
- u. Center punch
- v. One pound rivet set
- w. Marking pen
- x. Small trammel points
- y. Scratch gauges

\*Contestants may use their own tools if desired, necessary tools for the contests will be provided by the technical committee.\*

## **SCOPE OF THE CONTEST**

The contest is defined by industry standards as established by the SkillsUSA Championships technical committee. The knowledge and skills tests will assess the ability to fabricate and install HVAC related sheet metal fittings/duct, evaluate lay out skills, and ability to solve sheet metal problems throughout the competition.

### **Skill Performance**

The contest will assess the ability to complete a sheet metal project involving a 26-gauge galvanized sheet metal on the basis of using hand tools, correctness of layout, alignment, quality of workmanship and shop safety procedures.

### **Contest Guidelines**

1. Contestants will be judged on their ability to perform such jobs as connecting sheet metal pieces with Pittsburgh seams, fitted together with slip and drive connections.
2. Skills tested may include straight duct, transition fitting, and 90-degree elbow fitting.
3. Contestants will be given a print of the project, and be expected to assess, layout and fabricate the fittings with given prints.
4. Questions regarding the prints may be asked at any point by the contestants throughout the duration of the contest with the question being repeated by a judge out loud for all contestants to hear the question asked as well as the answer.
5. Contestants are not allowed to bring layout books to the contest

**NO CELL PHONES ARE TO BE IN THE CONTEST AREA!**

Revised 3/17/23