



HVAC/R Technology Contest Information

Tentative-Information is subject to change, check back often.

NO SUBSTITUTIONS WILL BE ALLOWED AFTER FRIDAY, MARCH 28, 2025.

THERE WILL BE NO SUBSTITUTIONS ALLOWED ON-SITE AT THE CONFERENCE*

PURPOSE

To evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the HVAC/R trades.

TIME/DATE/LOCATIONS

State SkillsUSA Contests will be held Monday, April 28th, 2025 at Arvest Business Center (formerly know as the Cox Business Center).

The contest orientation will begin at 8 a.m. **SHARP**. Any contractors or industry representatives present who wish to speak to the contestant group may leave their information with the contest chair. Contestants will receive this information and have a potential employment opportunity.

The contest will follow immediately after or by 9 a.m.

TESTING

TESTING Contestants will be judged on their SkillsUSA knowledge through the Professional Development test. Testing will be completed online and proctored through their technology centers. Online testing opens March 14, 2025, and closes April 4, 2025. No provisions are being made for make-up testing on-site.

Contestants will NOT be allowed to use cell phones or other electronic communicating devices during the contest and will be disqualified for doing so.

RESUME- Change to submission type please for 2025 please read

All contestants will submit a digital resume prior to contest day. Contestants will receive an email to the address used to register the contestant for contest with instructions and link to

access the SkillsUSA Competitor Portal page. The email will contain contestant's username and contestant number, which are required to login to the Competitor Portal.

Deadline to submit resume is April 22, 2025.

LUNCH

Box lunch is included in contest registration for contestants.

It is recommends bringing bottled water and snacks (energy bars, etc.) to tide contestants over until lunch

CLOTHING REQUIREMENTS

All students will be required to wear appropriate clothing representative of their occupation. No school logos or anything that shows your name allowed on clothing. Safety glasses are required at all times while in the contest area.

INDUSTRY AWARDS

As agreed at August Conference each instructor is requested to secure a minimum of \$75.00 in prizes for each student that you bring to the State SkillsUSA Championships. Please contact your **Awards Chairman** for details and to let him know of industry awards you have secured. I know many of you have already been hard at work securing the awards. These awards should be labeled with the name, address, and contact person for the donating industry so that the contestant they are awarded to can send an appropriate expression of his or her appreciation.

***** Prizes are the responsibility of the individual contests. Prizes are not guaranteed and are not supplied at the SkillsUSA Oklahoma state level.**

Please contact the chair with prizes that will need to be checked in. **Each participating school is expected to furnish an industry award.** Industry awards should be labeled with the name and address of the award supplier so that an appropriate "Thank you" may be sent, must be accompanied by an *industry award donation information sheet* (available on the Oklahoma SkillsUSA website). **Please bring prizes to the industry awards area at the Arvest Convention Center Conference Hall, Sunday, April 27th between 12-4pm or Monday, April 28th between 8am-4pm.**

AWARDS CEREMONY

Winners will be recognized at the General Session on Tuesday morning, April 29th, at 9am at the Arvest Convention Center in the Grand Hall. All competitors must wear official SkillsUSA dress to the Awards Session, where winners are announced. Competitors who are not dressed appropriately or lack official attire will be denied access to the awards stage. Students must be present when their contest is announced. If a student is improperly dressed, absent, or misses their contest being called, the production will not be paused for any reason, and they will forfeit their opportunity to go on stage to receive the award. No exceptions will be made. No hats or sunglasses will be allowed to be worn on stage.

- Official dress for men: Official blazer, jacket or sweater; black dress slacks; white dress shirt; plain black tie with no pattern or SkillsUSA black tie; black socks and black shoes.
- Official dress for women: Official blazer, jacket or sweater; black dress slacks or knee-length skirt with business like white, collarless blouse or white blouse with small, plain collar that may not extend onto the lapels of the blazer, and black dress shoes.

CONTEST INFORMATION

- **Instructors will NOT be notified of winning contestants following the competition.**
- **Contestants will NOT be permitted to leave the contest site until finished.**

SUPPLIED BY THE TECHNICAL COMMITTEE:

Common HVAC/R equipment with faults inserted or assigned tasks:

- Air Conditioning Reem
- Heat Pump Carrier
- Electric Heat Lennox
- Gas Heat York
- Air Flow Measurement
- Refrigeration Johnstone Supply
- Oxy-Acetylene brazing equipment Tulsa Tech
- Pressure testing apparatus Tulsa Tech
- Static Pressure tip for airflow measurement

Judges and equipment for this year's contest are provided by:

- Johnson Controls, Inc.

- Carrier Enterprise
- Rheem
- Johnstone Supply
- Lennox Industries
- Locke Supply
- Oklahoma Construction Industries Board
- OSU-IT
- Plumbers and Pipefitters Local #344 (OKC)
- Plumbers and Pipefitters Local #430 (Tulsa)
- Shearer Supply
- PHCC and the UA
- Airco Service

**THANK YOU to our judges and equipment donors!
SUPPLIED BY INSTRUCTOR FOR EACH CONTESTANT**

- Clamp-on Volt-Ohm-Amp Meter
- Tool box or belt of basic hand tools for HVAC service
- Groove joint pliers (Channel Lock or equivalent)
- Flashlight
- K-Type Temperature Probe
- Torch Striker
- Acetylene bottle wrench (bone key)
- Tubing cutter
- Emery cloth or brush cleaner
- Tape measure
- Jumper leads
- Eye Protection (ANSI approved goggles or safety glasses with side shields or prescription glasses with side shields)
- Calculator (NO Mobile Phones)
- 2-#2 Lead Pencils

BRAZING MATERIALS:

- EXACTLY 24" of 3/8" Copper Tubing ACR (Hard Drawn preferred).
- 1 – 3/8" Schrader Service Valve
- 1 – 3/8" OD Copper Tee
- 4 – 3/8" OD Long Radius 90 degree ELL - Copper
- Silphos; 15% preferred, but whatever the contestant is most accustomed to brazing with.

CONTEST DESCRIPTION AND SCORING

The contest will consist of an online PDP knowledge test and a test covering knowledge of HVAC/R, brazing skills, and common troubleshooting/measurements in electrical, mechanical, airflow, gas supply, and refrigerant systems.
The SkillsUSA PDP is 2.5% of the contest score.

The HVAC written knowledge test is 10% of the contest score.

The technical skills portion of the contest is 87.5% of the contest score. The above scoring is consistent with the national SkillsUSA competition

