HVACR
Heating, Ventilation, Air Conditioning and Refrigeration

CHAIR: Jonathan Brown, Kruse Corporation
CO-CHAIR: ---

CONTEST DATE: April 25, 2019

CONTEST LOCATION: Hutchinson Community College ITC 108/103

CONTEST TIME: 1:00 pm – 5:00 pm

PURPOSE: To evaluate each contestant’s preparation for employment and recognize outstanding students for excellence and professionalism in heating, ventilation, air conditioning and refrigeration.

ELIGIBILITY: Open to active SkillsUSA members enrolled in programs with heating, ventilation, air conditioning and refrigeration as the occupation objective.

CLOTHING REQUIREMENT: Unless the contest chair says otherwise, students are required to wear the Official SkillsUSA Kansas T-shirt and blue jeans (no tares, holes, or bagginess) clean and neat with appropriate shoes for contest, or Official SkillsUSA khaki work shirt and pants attire.

* 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.)

Official SkillsUSA Kansas T-shirt attire  Official SkillsUSA khaki work shirt and pants attire
CONTEST UPDATES:

HVACR SCHEDULE:
12:00 noon    LUNCH in STL Theater
12:45 PM    Orientation

CONTEST BEGINS
1:00 PM    Rotation #1
1:45 PM    Rotation #2
2:30 PM    Rotation #3
3:15 PM    Rotation #4
4:00 PM    Rotation #5
4:45 PM    Contest Ends
5:00 PM    Debrief

Students will be evaluated by the following areas:
- Brazing
- Refrigeration Troubleshooting
- Electrical Troubleshooting – Air Conditioning
- Refrigeration System: Electrical Troubleshooting
- Refrigerant Procedures
- Electrical Troubleshooting – Heating
- Brazing Safety Seminar
- Students will be given a written test
- Students are required to bring a one-page resume
- Students are required to wear official dress for competition, see clothing requirements

Tools required to be brought to the contest by contestants:
- Volt Ohm Meter
- Amp Meter
- Assorted screwdrivers
- Nut drivers
- 3/8” Swaging Tool
- 3/8” Flaring Tool
- Tubing Cutter
- Wiping Cloth
- Steel rule or measuring tape
- Tubing Bender
- Basic Hand Tools
- All PPE: Safety Glasses/Gloves
- Oxy Acetylene Torch kit with two full bottles
- Refrigerant reclaim machine 410a capable
- Scfm or smaller vacuum pump
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- 3/8’ tube bender, swing or cross bow style is fine

NOTE: All of the above items will need to be marked and labeled with identifiable markings.

Stations to be covered:
- Written Exam
- Furnace Operation
- Air Conditioners
- Solder + Braze
- Refrigeration