

## Skills USA

### HVAC&R Scope of the Competition

All tools and test equipment will be provided.

Each student should bring his/ her own personal protective equipment.

(Safety glasses, gloves, dust mask)

Students may bring familiar tools and test equipment as per Skill USA rules school identity of equipment cannot be displayed.

Students will fabricate and complete a copper project.

Students will fabricate a section of duct from 1 inch fiberglass Duct Board.

Students should be prepared to do any test necessary to determine proper operation of the equipment in the tests listed below including electrical, refrigeration system and combustion.

Students will install gauge manifold, check pressures, determine operating conditions , use of a PT chart , and calculate superheat and sub cooling on a refrigeration or AC system.

Students will troubleshoot and test manifold pressure on a 90 plus Gas hot air furnace.