



CONTEST SCOPE

Program Name- HVAC/R

Contest Chair-Thomas Danner

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Berks Career and Technology Center

East Campus – 3307 Friedensburg Road Oley, PA 19547

West Campus – 1057 County Welfare Road Leesport, PA 19533

Contest:	HVAC/R
Purpose:	The HVAC student technician will demonstrate their knowledge and abilities, to solve problems and answer questions related to the field of HVAC. This competition is an attempt to narrow down the competitors to one in each category; ensuring that the competitor with the highest score will be the one heading to the State Skills Competition.
Clothing:	<p>The competitors must wear black or brown steel toed leather work shoes or boots; with an Electrical Hazard (EH) listing on their footwear, or they will not compete.</p> <p>The competitors must wear a hard hat, and safety glasses with side shields during the competition, or they will be disqualified. Note: Students who wear corrective lens must have side shields on their eyewear or they must wear safety goggles.</p> <p>Leather gloves must be worn when brazing or soldering, or the competitor will be disqualified from that event.</p> <p>Contestants will wear school appropriate clothing. Students will not be penalized for clothing unless it is a safety violation.</p>

Equipment and Material:

Equipment/Tools/Materials Provided by Host School:

All items not listed below will be supplied by the testing site.

Equipment/Tools/Materials Provided by the Contestant:

- A calculator, pens, pencils and a fine point marker
- Multi-meter
- Hand tools (any hand tools that are used in the HVAC industry- assorted screw drivers, nut drivers, wrenches, hex keys, tape measure, tubing cutter, level and etc.)

Scope of Contest

The competitors should be prepared to participate in the following timed events:

- Multiple choice exam: competitors must supply their own blue or black inked pen, or pencil; *no borrowing will be allowed.*
- Copper project: competitor must have their own measuring device, such as a tape measure or foot rule, as well as their own tubing cutter.
- Troubleshooting of an oil and/or gas furnaces will be conducted.
- Troubleshooting of a split air conditioning system and/or heat pump will be conducted.
- Schematic/wiring activity
- Multiple knowledge exercises of HVAC components, as well as identification and testing of numerous HVAC related items

Additional Information

Read and understand all that is written above prior to coming to the competition. The safety attire/clothing, and the required items listed above will be enforced as written.