

DMACC

Heating, Air Conditioning, and Refrigeration Technology Program.

Official Program Tool List

For HACR class at DMACC Revised 11/10/25

These are the minimum requirements for this Program and subject to revision. This list is based on the tools that a typical A/C and heating technician will need on the job.

Tools

Refrigeration manifold - gauge set with hoses, with ball valves, 4-port
Refrigeration service valve ratchet wrench with key
1/4" Nut driver magnetized
5/16" Nut driver magnetized
3/8 Nut driver magnetized
Tubing cutter Std. 1/4 to 1 1/8" *
Tubing cutter 1/8" to 5/8"
Lineman's Pliers
Side cutting diagonal pliers 6"
Wire stripper with crimp type
Channel Lock (type) pliers 10" or 12"
8 in 1 screwdriver or
Allen wrench set long arm to 3/8" size. Ball end type
Tape measure -25ft.
6" and/or 8" Adjustable wide opening wrench
10" Adjustable wide opening wrench
Thermometer -40 to 160 degrees, pocket
Digital remote reading thermometer (range -40 to 220 °)
Flashlight with batteries or Head lamp
Magnetic torpedo level 9"
Inspection mirror
Utility knife
Valve Core Removal Tool
Aluminum Pipe Wrench 12"
Tool bag or Tool Backpack. Check with instructor about size limits.

Sheet metal tools

Offset left hand cut snips M2001
Off set right hand cut snips M2002
Scratch Awl and/or Scribe
12" folding tool #12
Hand seamer 3"
Tinnerns Hammer

Where to purchase your tools:

Johnstone Supply 11000 Justin Drive Urbandale
515-253-0000 or 1-800-846-4450

Questions and/or concerns, please feel free to contact: Dave Hansman/ Program Chair/Instructor
Office # 515-964-6426

Safety glasses OSHA approved – required for labs

Meters:

Meters must be able to check capacitors 1uf to 10,000uf, dc micro amps and dc millivolts

UEI EPCCOMBO Meter(amp/VOM & temperature) **OR**
Fieldpiece SC260 (amp/VOM and temperature)

All meters should be true RMS, and certified by testing agencies, CE, UL, CSA or TUV/GS

Classroom Supplies

Colored pencils for wiring diagrams2- Black or Blue
Sharpies