

MANCHESTER COMMUNITY COLLEGE

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www.manchestercommunitycollege.edu

HVAC Degree Program Required Tools / Supplies

1. Steel toed leather shoes or boots
2. Safety glasses
3. Leather work gloves
4. Hard hat
5. Electrical ammeter (recommend fluke model 334 clamp-on)
6. Plumbers cloth (sand paper/cleaning cloth)
7. Tube cutter - HVAC type (different than plumbing type)
8. Air cond. Wrench (4-way wrench)
9. 4-way manifold gauges with hoses (* second set required for the senior Refrigeration/Air Conditioning classes)
10. Ball valve environmental Hoses (3 required)
11. 25ft. measuring tape
12. 3/8" drive socket set
13. Nozzle wrench
14. Hacksaw
15. Hammer (Claw or ball peen)
16. 8" adjustable wrench
17. 10" adjustable wrench
18. 12" adjustable wrench
19. Wire stripper/cutter/crimper
20. 1-1/8" open end/box end wrench (doesn't come with most sets)
21. Open end / box end wrench set (5/16" - 1")
22. 10" metal file
23. Wooden file handle
24. 5/16" nut driver
25. 1/4" nut driver (or a nut driver set)
26. 9" cable ties (can be 11") (25minimum)
27. Two 12" pipe wrenches
28. Disposable pie pan (to catch oil)
29. "T" handle allen wrench set (or "L" shaped long allen wrenches)
30. Solderless terminal kit-for wire (for 14, 12, & 10 gauge wire)
31. Flaring and swaging tool (Imperial Eastman set 275fs)
32. Sheet metal snip set (lefts & rights, red & green handles)
33. Turbo torch tip A-3
34. Electrical tape
35. Flashlight

36. Linemans pliers
37. Long nose pliers
38. Phillips screwdrivers - 3 sizes
39. Flat tip screwdrivers - 3 sizes
40. Pocket size flat tip screwdriver
41. Pocketknife
42. Flint lighter (striker)
43. Toolbox
44. Heating flame mirror (small rectangular mirror)
45. Ritchie fuel oil test kit (pressure and vacuum)
46. 1/4" ID x 18" clear plastic tubing
47. 6" steel pocket ruler (marked in 1/16")
48. * VOM electrical meter (recommend Fluke model 177)
49. ** Flare nut wrenches 5/8, 3/4, 7/8, 1-1/8
50. ** Tubing bender for 1/4, 5/16, 3/8
51. ** Mini tubing cutters (imp & big imp sizes)
52. ** Turbo torch tip A-5
53. ** Manifold gauge set (second set, should be usable with R-410a)
54. ** Rotosplit tool for 3/8 flexible metal conduit

* Needed second semester (Fundamentals of Refrigeration II)

** Needed third semester (Fall senior year)

We recommend purchasing tools with a lifetime warranty.

Additional Requirements:

Two professional memberships: ASHRAE & RSES (currently \$52 & \$16 per year)

Note: Manchester Community College is not responsible for lost or stolen tools/supplies.