

Thaddeus Stevens College, **FRESHMEN TOOL LIST**

Item	Manufacturer	Description	Source	Mfg. Model #	Catalog Part #	Cost
1		Safety EYEWEAR Clear Lens ONLY	Pierce Phelps	ANSI approved	9800xl	2.59
2		Light-weight Leather Gloves				12.00
3		20-25' TAPE MEASURE 1" blade width	Pierce Phelps		CT425	7.25
4	Channel Lock	ADJUSTABLE WRENCH opening to 1 1/8"	Pierce Phelps	810W	Klein	24.95
5	Channel Lock	ADJUSTABLE WRENCH 6" to 8" size	Pierce Phelps	808W	Klein	19.89
6	Klein / Ritchie	HEX KEY SET (Not Folding set)	Pierce Phelps	LLK12 / 60685	LLK12	8.00
7	Channel Lock	GROVE LOCK PLIERS	Pierce Phelps	422 V	Klein	16.89
8	Channel Lock	7" or larger NEEDLE NOSE PLIERS	Pierce Phelps	318	Klein	17.00
9	Klein/Channel Lock	WIRE STRIPPER/CRIMPER	Pierce Phelps	1010/ 908	1010	18.00
OPT.	Klein	Cable Ripper	Pierce Phelps	74014	74017	3.00
10	Lenox	Utility Knife w/ 3-5 blades	Pierce Phelps	20353SSK1 / 10771FLK1	20353	9.25
11	Klein / Lenox	9-in-1 or 11-in-1 MULTI-DRIVER	Pierce Phelps	32557 or 32527 / 23932	23932	12.45
12		SMALL Pocket SCREWDRIVER 1/8"	Pierce Phelps			4.00
13	Klein / Empire	Torpedo LEVEL	Pierce Phelps	930-9 / EM819	21190	19.89
14	Bernzomatic	Hand-Held Propane/Mapp Torch	Pierce Phelps	TS4000	21179	18.25
		Propane or Mapp Gas Cylinder	Pierce Phelps		1202	8.45
15		1 lb roll 1/8" Lead-Free Solder	Pierce Phelps		16000	19.00
16		4-8 oz Solder Flux	Pierce Phelps		40027	3.25
17	Tool Box/Bag and Lock	Maximum size 12" H x 21" L				35.00
18	Ritchie / Klein	Refrigeration Ratchet	Pierce Phelps	60613 / 68309	60613	9.15
19	Klein / Ritchie / Lenox	Tubing Cutter 1/8" TO 1 1/8" cap	Pierce Phelps	88904 / 60101 / 21010TC118	88904	28.00
Opt.	Ritchie / Robinair	DEBURRING TOOL	Pierce Phelps	60163 / 13162	60163	9.10
20	Ritchie or Imperial	FLARING TOOL 1/4" TO 5/8" cap.	Pierce Phelps	60295 / 195FC	60440	110.00
OPT.	Imperial	3-in-1 tube bender	Pierce Phelps	368-FH or 470-FH	60390	22.25
22	Ritchie	MANIFOLD-GAGE SET w/ hoses (Heat pump 22/507/410)	Johnston Supply			89.00
23	Ritchie	LOW LOSS FITTINGS/Valve for gage hoses	Pierce Phelps	29601	19100	23.00
24	Cooper / Robinair	Digital Pocket Thermometer	Johnston Supply	PT100 / 43230	H27-032	9.60
25	Klein / FieldPiece	Pocket Non-Contact Voltage Tester	Johnston Supply	NCVT-1 / DV24	H26-504	8.25
26	Field Piece	Multi-Meter (40M Ohms minimum True RMS recommended)	Sid Harvey's	CL22		156.00
				Estimated Total		\$720.46

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Manufacturer and model numbers are given as recommendations of the required tools. Work performance will depend on purchasing good quality tools. I do not recommend any of the Sears/Craftsman tubing tools or the Ridgid # 345 flaring tool as past students have had many problems with these tools. I only recommend the Appion core removal tool, MGAVCT, as it is the only brand that will not leak under deep vacuum. When considering the electric multi-meter, students should be sure to purchase a quality True-RMS meter designed for HVAC or industrial electrical work. Second year students will need to purchase electronic temperature meter, which the recommended model incorporates as an accessory. It is also required that the meter purchased carry the "UL" label and be rated for Cat II or higher. General screwdrivers, pliers, wrenches and electrical tools may be found at any quality hardware or "home-center" retail outlet. Local sources for tools specific to the HVAC/R industry may be found listed in the yellow pages under; "Air Conditioning, Refrigeration, or Heating Equipment Supplies." Some "wholesalers" who normally only sell to contractors, will sell tools to our students if they identify themselves as enrolled in our HVAC program.

Sid Harvey Industries
John Benedict, manager
535A East Ross Street
Lancaster PA 17602
800-365-8845
717-394-8044
email: store038@sidharvey.com

Pierce Phelps
Daniel Gohn, manager
360 Steel Way
Lancaster PA 17601
717-295-8330

Conestoga Supply (promised 10% off any tool with student ID)
Larry Libonati, Branch Manager
1223 Manheim Pike
Lancaster, PA. 17601
717-569-3246

Johnstone Supply
Ship Harlan, manager
2221 Sycamore Street,
Harrisburg PA 17111
717-233-7593
email: skip.harlan@johnstonesupply.com