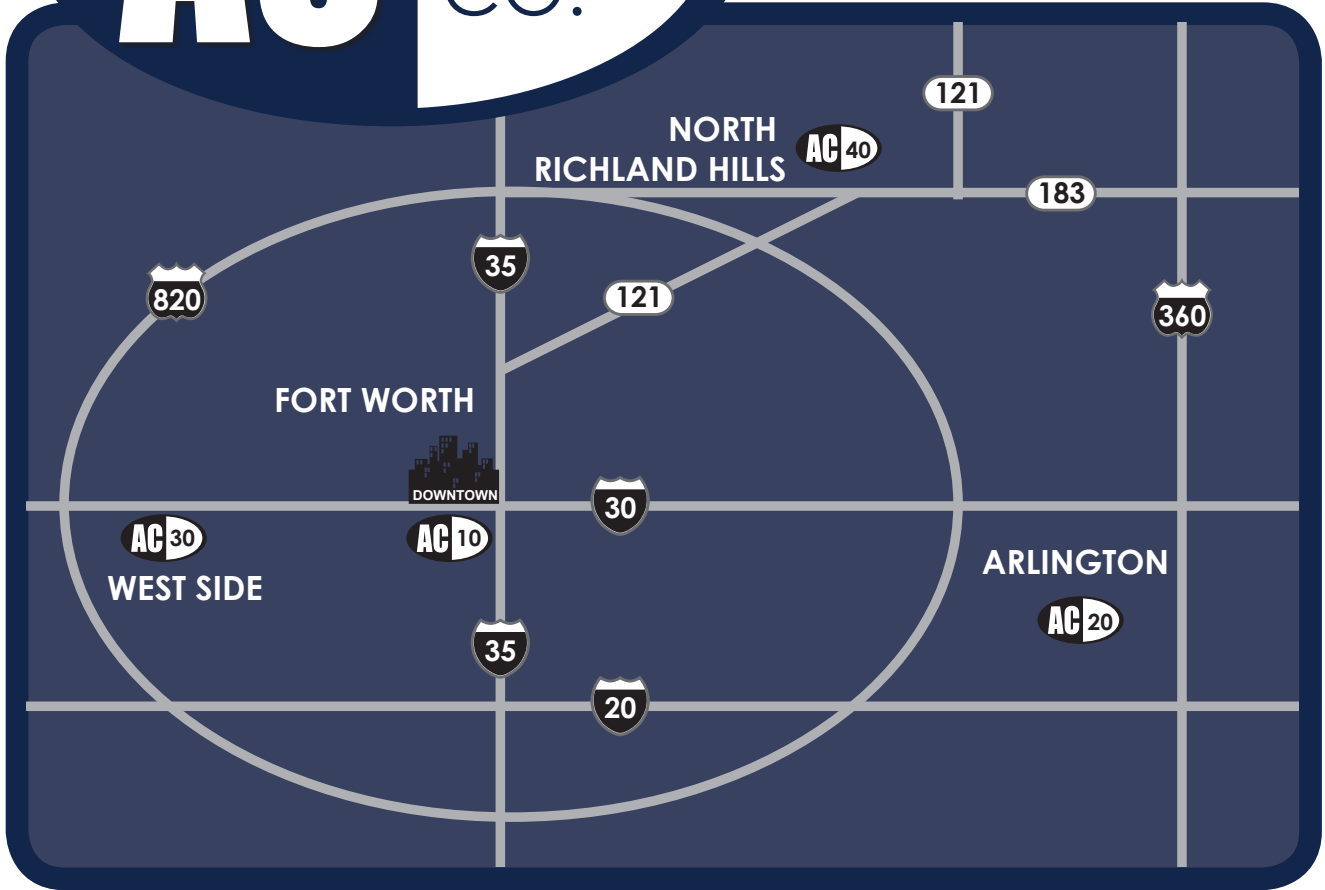




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TARRANT COUNTY COLLEGE

HART HEATING, AIR CONDITIONING, & REFRIGERATION TECHNOLOGY

August 2018

To Whom It May Concern:

The following is a list of tools required of students enrolled in the HART program. It is categorized by course and may be updated as requirements change. Prices are estimated and not guaranteed.

ALL CLASSES - MANDATORY TOOLS

DESCRIPTION	MODEL #	PRICE
Eye Safety Glasses	SD111AR	7.00
Calculator	T130XIIS	18.70

HART 1407 REFRIGERATION PRINCIPLES

DESCRIPTION	MODEL #	PRICE	
16 oz Ball-Peen Hammer	80316	24.01	
❶ Flaring tool w/Flaring block	60210	40.38	CHOOSE 1 OR 2
❷ Pro-Fit Precision Spin Flare Kit	87001	88.58	
❶ 1/4" – 5/8" Swaging tool kit	T21024	31.88	CHOOSE 1 OR 2
❷ Pro-Fit Swaging Kit	87011	100.00	
❶ Mechanical tubing bender	60390	38.25	CHOOSE 1 OR 2
❷ CPS Tubing Bender	BTB300	163.20	
25' Tape Measure	86125	14.58	
Slot Screwdriver	6024	9.18	
7-Piece Nut Driver Set	631	50.58	
#2 Phillips Screwdriver	6034	8.46	
Refrigeration Service Wrench	T21127U	13.60	
Digital Pocket Thermometer	DPP400W	19.13	
1/4" to 1 1/8" tubing cutter	21011	35.91	
Refrigerant gauges w/manifold & 3 hoses – for R22 & R410A	42004	110.50	
KLEIN 10" adjustable/reversible wrench	D86930	36.68	
8" adjustable wrench	2078608	12.32	
Hex Key Adapter	60609	7.86	
Diagonal wire cutters	2078308	15.51	
Needle Nose (long nose) pliers	2078218	13.60	
LED Flashlight	DWL1	23.38	
Eye safety glasses	SD111AR	7.00	
❶ Tool bag	VETOMC	89.25	CHOOSE 1 OR 2
❷ Tool bag (backpack)*	TECHPAC	221.00	
Refrigeration/Air Cond. Book	FHVACR	157.25	
Access fitting core depressor	2 - CD5050	11.06	
Low side gauge w/ 1/4" Adapter	40332	25.50	

* MAY SUBSTITUTE TOOL BOX, RECOMMEND – 19"LX9"WX10"H

TARRANT COUNTY COLLEGE

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Prices are estimated and not guaranteed.

HART 1441 - RESIDENTIAL AIR-CONDITIONING

All tools and test equipment required by HART 1401, HART 1407, HART 2431 plus...

DESCRIPTION	MODEL #	PRICE
1/4"+5/16" Nut Driver magnetic stubby	65131	17.85
Hex Head Wrenches Set	70575	7.01
Lenox 1/8" – 5/8" tubing cutter**	21008	16.57
Core remover tool	CD3930	34.00
❶ Fluke Clampmeter*	902STU	221.43
❷ Fieldpiece Wireless Multimeter	SC660	276.25
Fluke pipe clamp	80PK8	165.75
Fluke adapter	80AK	27.63
Low voltage alert w/ infrared thermometer	NCTV41R	36.13
Pocket Psychrometer	PRH2	68.00

CHOOSE
1 OR 2

*WHILE SUPPLIES LAST **TOOLS MAY BE REQUIRED IN OTHER COURSES

HART 2431 ADVANCED ELECTRICITY

All tools and test equipment required by HART 1401, HART 1407, HART 1441, and HART 2442.

HART 2442 COMMERCIAL REFRIGERATION

All tools and test equipment required HART 1401, Hart 1407, HART 1441, and HART 1445 plus...

DESCRIPTION	MODEL #	PRICE
Inspection mirror magnifying	M2	7.14
** 6" adjustable wrench	2078606	11.26
Klein All Purpose Pliers w/ crimper	J2078CR	41.65
Wire Stripper	K12055	33.70

**TOOLS MAY BE REQUIRED IN OTHER COURSES

HART 1403 AC CONTROL PRINCIPLES

All tools and test equipment required by HART 1401, HART 1407, HART 1441, and HART 2442. No additional tools or test equipment required

HART 1445 GAS & ELECTRIC HEATING

All tools and test equipment required by HART 1401, HART 1407, HART 1441 plus...

DESCRIPTION	MODEL #	PRICE
Non Contact Volt Alert	1LACAI	27.20
Stick lighter	79380	5.95



TARRANT COUNTY COLLEGE

HART HEATING, AIR CONDITIONING, & REFRIGERATION TECHNOLOGY

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HART 2438 AC INSTALLATION/STARTUP		
DESCRIPTION	MODEL #	PRICE
Tool Kit (includes the following)	STKM	437.75
<i>Pipe Crimper</i>	C5	
<i>Hand Notcher</i>	N1	
<i>Hand Seamer</i>	S2	
<i>Snap Lock Punch</i>	S4	
<i>Folding Tool</i>	12	
<i>Divider</i>	18	
<i>Aviation Snip Left Cut</i>	M2001	
<i>Aviation Snip Right Cut</i>	M2002	
<i>Aluminum Snip</i>	M14N	
<i>Scratch Awl</i>	A1	
<i>Setting Hammer</i>	SH3	
<i>Tension Tool</i>	TY4G	
<i>Tool Box</i>	16O2	
Duct knife	DK06	13.18

HART 2445 AC SYSTEMS DESIGN

No tools or test equipment required

HART 2436 AC TROUBLESHOOTING

All tools & test equipment required by HART 1401, HART 1407, HART 1441, HART 1445, HART 2442, HART 1403

DESCRIPTION	MODEL #	PRICE
8 in 1 magnetic stubby	32596	23.16
#1 Phillips screwdriver w/4" shank	6033	7.86
Combination wrench 9 pc set	68402	89.25
Mag Jumper	MJ1	10.20

HART 2449 HEAT PUMPS

All tools & test equipment required by HART 1401, HART 1407, HART 1441, HART 1445, HART 2442, HART 1403