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# TARRANT COUNTY COLLEGE

## HART HEATING, AIR CONDITIONING, & REFRIGERATION TECHNOLOGY

August 2016

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	6.25
Calculator	T130XIIS	17.01
HART 1407 REFRIGERATION PRINCIPLES		
DESCRIPTION	MODEL #	PRICE
16 oz Ball-Peen Hammer	80316	22.66
Flaring tool w/Flaring block	60210	39.10
1/4" – 5/8" Swaging tool kit	T21024	28.84
① Mechanical tubing bender	60390	37.24
② CPS Tubing Bender	BTB300	155.96
25' Tape Measure	93025	13.74
Slot Screwdriver	6024	8.64
7-Piece Nut Driver Set	631	47.61
#2 Phillips Screwdriver	6034	7.97
Refrigeration Service Wrench	T21127U	11.67
Digital Pocket Thermometer	DPP400W	18.34
1/4" to 1 1/8" tubing cutter	21011	34.80
Refrigerant gauges w/manifold & 3 hoses – for R22 & R410A	42004	100.43
10" adjustable wrench	2078610	14.09
8" adjustable wrench	2078608	12.02
Hex Key Adapter	60609	7.40
Diagonal wire cutters	2078308	15.14
Needle Nose (long nose) pliers	2078218	13.06
LED Flashlight	DWL1	21.84
Eye safety glasses	SD111AR	6.25
① Tool bag	VETOMC	87.51
② Tool bag (backpack)*	TEHPAC	218.83
Pad Lock (optional)	N/A	
3-Piece flare Nut Wrench Set	N/A	
Refrigeration/Air Cond. Book	FHVACR	149.84
Access fitting core depressor	2 - CD5050	10.14
Low side gauge w/ 1/4" Adapter	40332	24.34

CHOOSE  
1 OR 2

CHOOSE  
1 OR 2

**PACKAGES:**  
INCLUDES REQUIRED TOOLS  
WITH CHOICE OF TUBING  
BENDER AND TOOL BAG.

① ① 727.60

① ② 858.92

② ① 846.32

② ② 977.64

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



# TARRANT COUNTY COLLEGE

## HART HEATING, AIR CONDITIONING, & REFRIGERATION TECHNOLOGY

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	SD1	20.22
Hex Head Wrenches Set	70575	6.35
Lenox 1/8" – 5/8" tubing cutter**	21008	15.15
Core remover tool	CD3930	32.31
① Fluke Clampmeter	902STU	221.43
② Fluke Wireless Multimeter	SC57	245.06
Fluke pipe clamp	80PK8STU	118.53
Fluke adapter	80AKSTU	23.43
Low voltage alert	LVD1STU	23.43

**PACKAGES:**  
INCLUDES REQUIRED TOOLS  
WITH CHOICE OF METER.

① 460.85

② 484.48

CHOOSE  
1 OR 2

\*\*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	6.55
** 6" adjustable wrench	2078606	10.97
Crimpers for non-insulated wire terminals	2078317	13.14
<b>TOTAL</b>		<b>30.66</b>

\*\*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	26.22
Stick lighter	79380	5.52
<b>TOTAL</b>		<b>31.74</b>



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## HART HEATING, AIR CONDITIONING, & REFRIGERATION TECHNOLOGY

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HART 2438 AC INSTALLATION/STARTUP		
DESCRIPTION	MODEL #	PRICE
Tool Kit (includes the following)	STKM	421.78
<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	12.55
<b>TOTAL</b>		<b>434.33</b>

## 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
9 in 1 magnetic stubby	23932	9.89
#1 Phillips screwdriver w/4" shank	6033	6.90
Combination wrench 9 pc set	68402	82.69
Mag Jumper	MJ1	9.06
<b>TOTAL</b>		<b>108.54</b>

## HART 2449 HEAT PUMPS

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