



# TARRANT COUNTY COLLEGE

HART HEATING, AIR CONDITIONING, & REFRIGERATION TECHNOLOGY

August 2023

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	19.64
HART 1407 REFRIGERATION PRINCIPLES		
DESCRIPTION	MODEL #	PRICE
16 oz Rip Claw Hammer	IWHT51216	14.24
❶ Flaring tool w/Flaring block	60210	50.86
❷ Pro-Fit Precision Spin Flare Kit	87001	110.08
❶ 1/4" – 5/8" Swaging tool kit	T21024	35.15
❷ Pro-Fit Swaging Kit	87011	124.05
❶ Mechanical tubing bender	60390	45.07
❷ CPS Tubing Bender	BTB300	184.19
25' Tape Measure	86125	19.02
Slot Screwdriver	6024	11.80
7-Piece Nut Driver Set	631	61.91
#2 Phillips Screwdriver	6034	10.88
Refrigeration Service Wrench	T21127U	15.91
Digital Pocket Thermometer	DPP400W	25.50
1/4" to 1 1/8" tubing cutter	21011	37.71
Refrigerant gauges w/manifold & 3 hoses – for R22 & R410A	42004	134.93
KLEIN 10" adjustable/reversible wrench	D86930	44.91
8" adjustable wrench	2078608	14.45
Hex Key Adapter	60609	14.62
Diagonal wire cutters	2078308	16.29
Needle Nose (long nose) pliers	2078218	13.60
LED Flashlight	DWL1	24.55
Eye safety glasses	SD111AR	6.25
❶ Tool bag	VETOMC	118.70
❷ Tool bag (backpack)*	TECHPACMC	232.41
Refrigeration/Air Cond. Book	FHVACR	165.11
Access fitting core depressor	2 - CD5050	14.92
Low side gauge w/ 1/4" Adapter	40332	28.12

CHOOSE 1 OR 2

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\* MAY SUBSTITUTE TOOL BOX, RECOMMEND – 19"X9"WX10"H



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## 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 stubby	65131	21.86
Hex Head Wrenches Set	70575	9.02
Lenox 1/8" – 5/8" tubing cutter**	21008	17.41
Core remover tool	CD3930	53.67
Fieldpiece Wireless Multimeter	SC660	336.07
Fieldpiece Job Link Scale	SR47	309.40
¼ to 5/16 Adapter Mini Splits	19173	11.30
Thermocouple Pipe Clamp	TC24	61.06
Low voltage alert w/ infrared thermometer	NCVT41R	46.44
Pocket Psychrometer	PRH2	82.73

\*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	8.34
** 6" adjustable wrench	2078606	11.95
Klein All Purpose Pliers w/ crimper	J2078CR	51.00
Wire Stripper	K12055	41.27

\*\*TOOLS MAY BE REQUIRED IN OTHER COURSES

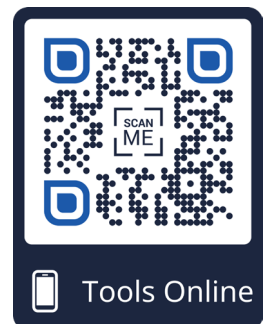
### HART 1403 AC CONTROL PRINCIPLES

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
Stick lighter	79380	14.25





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HART 2438 AC INSTALLATION/STARTUP		
DESCRIPTION	MODEL #	PRICE
Tool Kit (includes the following)	STKM	544.58
Pipe Crimper	C5	
Hand Notcher	N1	
Hand Seamer	S2	
Snap Lock Punch	S4	
Folding Tool	12	
Divider	18	
Aviation Snip Left Cut	M2001	
Aviation Snip Right Cut	M2002	
Aluminum Snip	M14N	
Scratch Awl	A1	
Setting Hammer	SH3	
Tension Tool	TY4G	
Tool Box	16O2	
Duct knife	DK06	17.50
Lentek Gloves	L360	6.29

## 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	28.36
#1 Phillips screwdriver w/4" shank	6033	10.11
Combination wrench 9 pc set	68402	114.73
Mag Jumper	MJ1	11.92

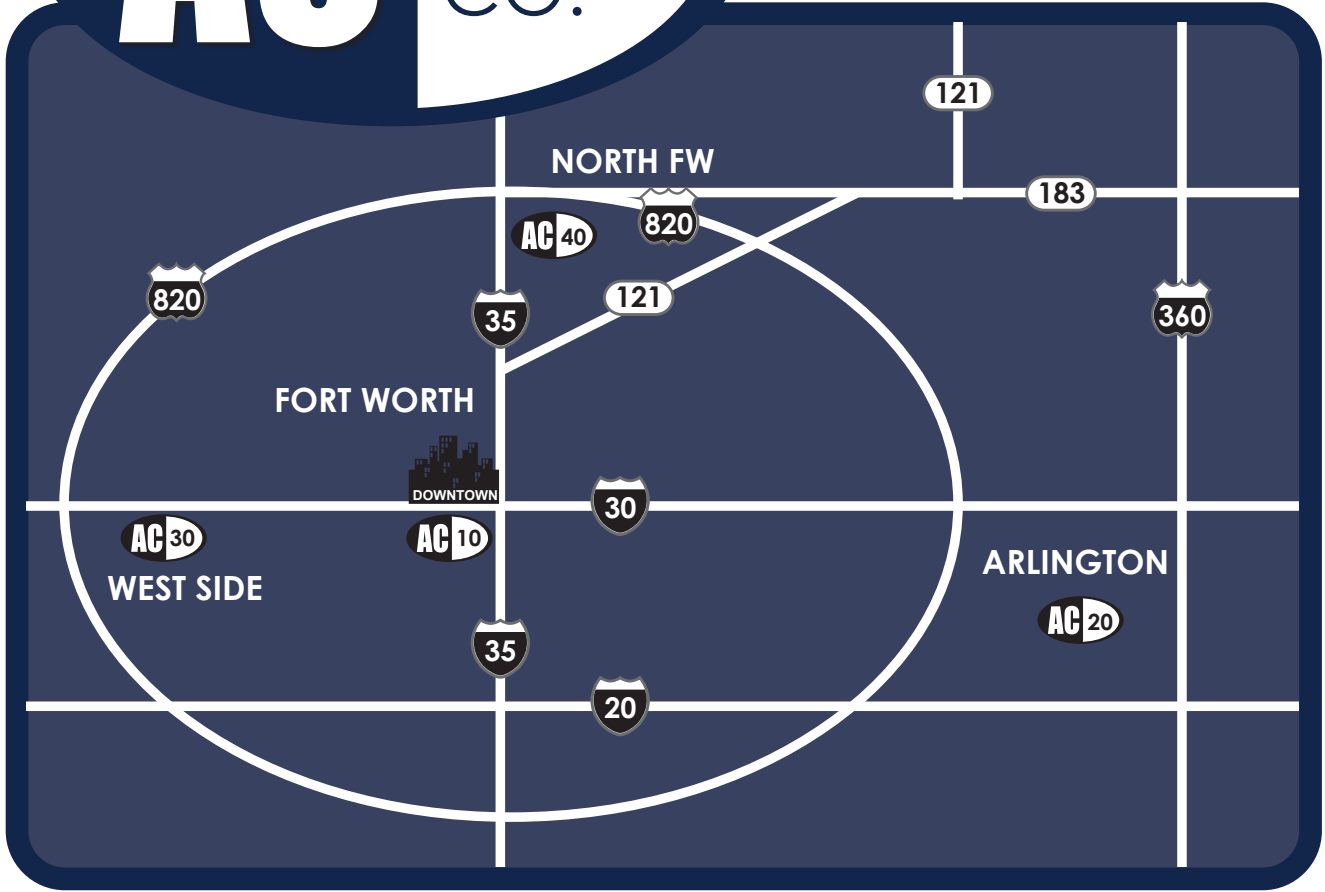
## HART 2449 HEAT PUMPS - 2441 COMMERCIAL AC - 2443 INDUSTRIAL AC

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





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AC 10



AC 20



AC 30



AC 40

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