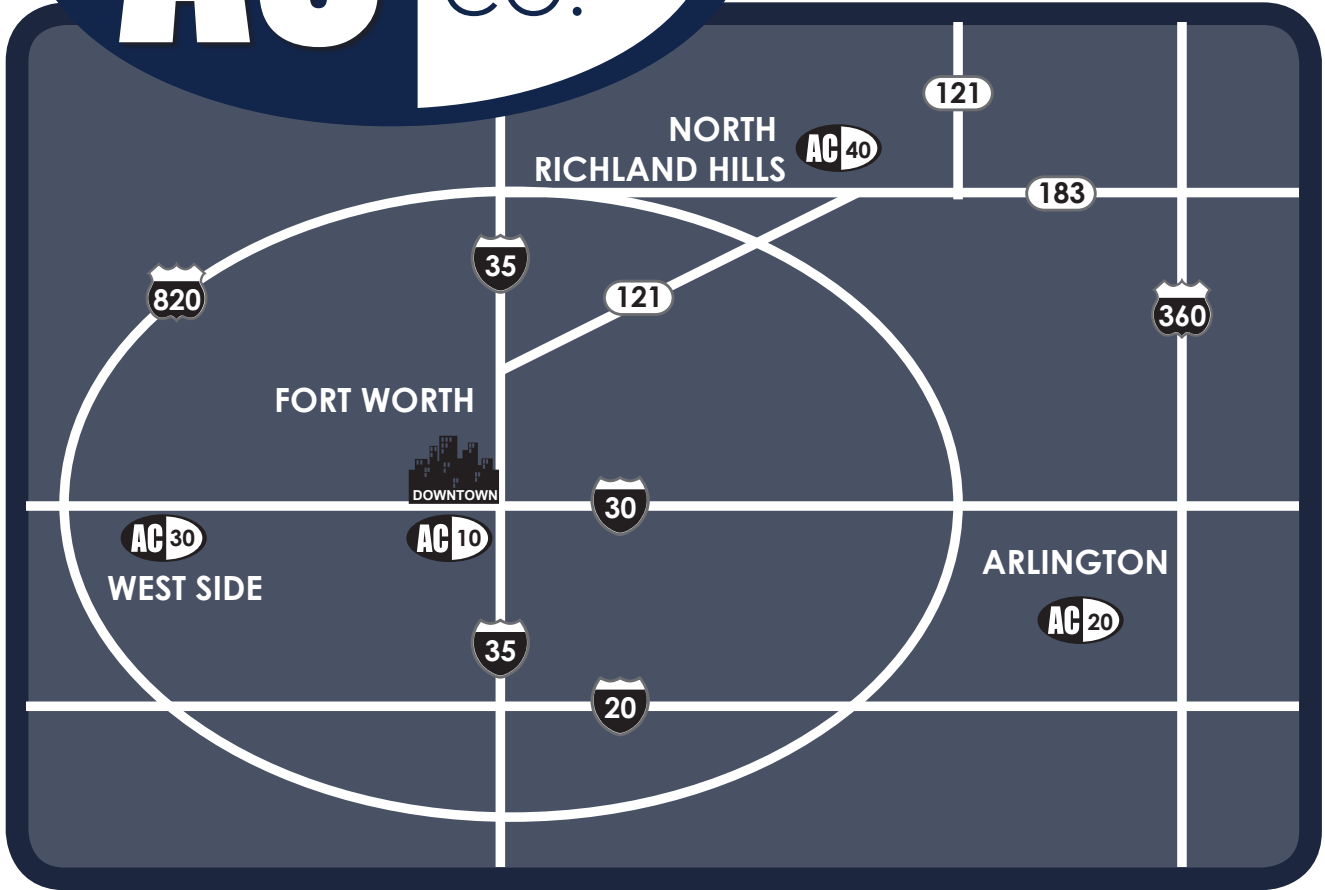




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TARRANT COUNTY COLLEGE

HART HEATING, AIR CONDITIONING, & REFRIGERATION TECHNOLOGY

January 2014

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 | 5.95 |
| Calculator | T130XIIS | 15.72 |

HART 1407 REFRIGERATION PRINCIPLES

| DESCRIPTION | MODEL # | PRICE |
|-------------------------------------------------------------|------------|--------|
| 16 oz Ball-Peen Hammer | 80316 | 20.95 |
| Flaring tool w/Flaring block | 60210 | 36.15 |
| 1/4" – 5/8" Swaging tool kit | T21024 | 25.13 |
| Mechanical tubing bender | 60390 | 34.43 |
| 25' Tape Measure | 93025 | 12.71 |
| Slot Screwdriver | 6024 | 7.98 |
| 7-Piece Nut Driver Set | 22188 | 42.75 |
| #2 Phillips Screwdriver | 6034 | 7.35 |
| Refrigeration Service Wrench | T21127U | 10.17 |
| Digital Pocket Thermometer | SPK1 | 19.76 |
| 1/4" to 1 1/8" tubing cutter | 21011 | 31.24 |
| ❶ Refrigerant gauges w/manifold & 3 hoses – for R22 & R410A | 42004 | 92.86 |
| ❷ Refrigerant gauges w/manifold & 3 hoses – for R22 | 41204 | 81.17 |
| 10" adjustable wrench | 2078610 | 12.07 |
| 8" adjustable wrench | 2078608 | 10.29 |
| Hex Key Adapter | 60609 | 6.85 |
| Diagonal wire cutters | 2078308 | 12.96 |
| Needle Nose (long nose) pliers | 2078218 | 11.18 |
| LED Flashlight | TLF3C2AAEX | 29.74 |
| Eye safety glasses | SD111AR | 5.95 |
| ❶ Tool box (28 pocket w/parts tray) | 1526 | 34.77 |
| ❷ Tool bag (open top) | OTLC | 135.96 |
| ❸ Tool bag (closed top)* | TECHLC | 131.71 |
| Pad Lock (optional) | N/A | |
| 3-Piece flare Nut Wrench Set | N/A | |
| Refrigeration/Air Cond. Book | FHVACR | 138.55 |
| Access fitting core depressor | 2 - CD5050 | 9.10 |
| Low side gauge w/ 1/4" Adapter | 40332 | 22.51 |

PACKAGES:

INCLUDES REQUIRED TOOLS WITH CHOICE OF REFRIGERANT GAUGE AND TOOL BAG.

❶❶ 635.45

❶❷ 736.64

❶❸ 732.39

❷❶ 623.76

❷❷ 724.95

❷❸ 720.70

CHOOSE 1 OR 2

CHOOSE 1, 2 OR 3

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



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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 | SD1 | 18.70 |
| Hex Head Wrenches Set | 70575 | 5.87 |
| Lenox 1/8" - 5/8" tubing cutter** | 21008 | 13.60 |
| Core remover tool | CD3930 | 29.00 |
| ❶ Fluke Clampmeter | 902STU | 186.93 |
| ❷ Fieldpiece Multimeter/Inrush | SC56 | 195.50 |
| ❸ Fieldpiece Wireless Multimeter | SC57 | 220.00 |
| Fluke pipe clamp | 80PK8STU | 109.60 |
| Fluke adapter | 80AKSTU | 15.93 |
| Low voltage alert | LVD1STU | 19.69 |

PACKAGES:
INCLUDES REQUIRED TOOLS
WITH CHOICE OF METER.

- ❶ 399.32
- ❷ 407.89
- ❸ 432.39

**CHOOSE
1, 2 OR 3**

**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 | 6.00 |
| ** 6" adjustable wrench | 2078606 | 9.39 |
| Crimpers for non-insulated wire terminals | 2078317 | 11.25 |
| TOTAL | | 26.64 |

**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 | 1LACAII | 19.59 |
| Stick lighter | 79380 | 5.10 |
| TOTAL | | 23.76 |



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| HART 2438 AC INSTALLATION/STARTUP | | |
|-----------------------------------|---------|---------------|
| DESCRIPTION | MODEL # | PRICE |
| Tool Kit (includes the following) | STKM | 390.00 |
| <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 | MAKN73 | 7.22 |
| TOTAL | | 400.77 |

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 | 8.88 |
| #1 Phillips screwdriver w/4" shank | 6033 | 6.38 |
| Combination wrench 9 pc set | 68402 | 76.46 |
| TOTAL | | 91.72 |

HART 2449 HEAT PUMPS

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