



HVAC- REFRIGERATION

COST SHEET

1st Trimester

Tuition..... \$1,440.00
HVA Fee \$100.00
Boots..... \$150.00

Book Cost

Book Title	ISBN	Bookstore Cost
Core: Introduction to Basic Construction Skills with NCCERConnect Acces Code Card	9780137474592	\$116.24
NCCERconnect with Pearson eText- Access Card - for HVAC Level 1	9780135187036	\$93.74
HVAC Level 1	9780135187094	\$93.74
TOTAL		\$303.72

Tool Cost

Quantity	Tool	Bookstore Cost
1	Tools-Tool Kit 28-piece	\$518.75
1	Tools- Multi-Bit Screwdriver and Nut Driver Set 3-piece	\$37.48
1	Tools- Extra Capacity Adjustable Wrenches, 3 -Piece	\$49.98
1	Fieldpiece SC260	\$210.59
1	Tools Knit Dipped Gloves, Cut Level A2	\$22.48
TAX		\$65.46
TOTAL		\$904.72

Testing Costs

Test	Bookstore Cost
OSHA 10	\$59.00
EPA-608	\$31.82
TOTAL	\$90.82

1st Trimester Cost\$2,989.26

2nd Trimester

Tuition..... \$1,440.00
HVA Fee \$100.00



HVAC- REFRIGERATION

Book Cost

Book Title	ISBN	Bookstore Cost
HVAC L2 TRG V5 & NCCERCONN 2.00	9780135393918	\$166.24
TOTAL		166.24

Tool Cost

Quantity	Tool	Bookstore
1	Valve Core Tool Kit: 3 1/6 in Lg, Brass	\$6.78
1	Inspection Mirror: 1 1/4 in Dia Mirror Size, Mirr. Mat. Glass, Mirr. Shp. Round	\$11.74
1	Hand Ratchet: alloy Steel Chrome, 3 1/16 in_5/16 in Head Size, 5 1/2 in Overall LG, Std	\$48.80
1	Hose: 14 in Lg, Blue/ Red/ Yellow, 3 Hoses, Ball Valve	\$276.99
1	Tubing Cutter: 3/16 in - 1 3/16 in OD Cutting Capacity, Enclosed Feed Std Wheel Cutter, 31622	\$58.36
1	Tubing Cutter: 1-4 in - 1 in OD Cutting Capacity, Auto Feed, 7 in Tool Lg, Cutting Wheel	\$36.78
1	Tubing Cutter: 1/16 in - 1/11/16 in OD Cutting Capacity, Ratcheting Shear, 9 in Tool Lg	\$42.04
1	Manifold Gauge: 4 Valves, 0 Hoses, Series Titan, 3 1/8 in Gauge	\$281.56
1	Hose: 6 ft Lg, 30" Angle, Black, Rubber, Single Hose, Shut-Off Valve	\$46.66
1	Flaring and Swaging Tool: Single 45 Degree, 3/4 in tube Flaring Size, Self-Centering	\$305.53
TAX		\$86.99
TOTAL		\$1202.21

2nd Trimester Cost\$2,908.45

3rd Trimester

Tuition..... \$1,440.00

HVA Fee \$100.00

Book Cost

Book Title	ISBN	Bookstore Cost
HVAC L3 TRG V5 & NCCERCONN 2.0	9780135393765	\$166.24
TOTAL		\$166.24

3rd Trimester Cost\$1,706.24



HVAC- REFRIGERATION

4th Trimester

Tuition..... \$1,440.00

HVA Fee \$100.00

Book Cost

Book Title	ISBN	Bookstore Cost
HVAC L4 TRG V5 & NCCER 2.0	9780135393772	\$166.24
TOTAL		\$166.24

4th Trimester Cost\$1,706.24

Total Program Cost\$9,310.19

Taxes will be charged on tools and other supplies according to the Tennessee Department of Treasury.

**Students who order tools through the bookstore will be assessed a mark-up to cover the cost of shipping, stocking, and handling.*

*This list of fees covers the period from September 1, 2024, to August 31, 2025. **All book, tool, and supply costs are approximate and are subject to change.** The actual time for completion may vary from student to student.*

The TCAT-Harriman is an AA/EEO employer and does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. TCAT-Harriman is a TBR/EEO/AA/ADA Institution.



HVAC- REFRIGERATION

COURSE OUTLINE

1st Trimester

Course Code	Course Name	Customary Hours
HVA 0001	Worker Characteristic	6
HVA 1010	Technology Foundations	30
HVA 1020	OSHA	10
HVA 1030	Shop Safety	24
HVA 1040	Refrigeration Fundamentals	100
HVA 1050	Tools Equipment & Shop Practices	30
HVA 1060	Electricity and Controls I	130
HVA 1070	Installation	76
HVA 1080	Green Awareness	14
HVA 1090	Employment Readiness Exam	12
Total		432
<i>HVAC Mechanic Assistant Certificate</i>		

2nd Trimester

Course Code	Course Name	Customary Hours
HVA 0002	Worker Characteristics	6
HVA 2010	Introduction to System Service	134
HVA 2020	Basic Automatic Controls	160
HVA 2030	Motors	60
HVA 2040	Domestic Appliances	30
HVA 2050	EPA	30
HVA 2060	Employment Readiness Exam	12
Total		432
<i>Domestic Unit Repairer Certificate</i>		

3rd Trimester

Course Code	Course Name	Customary Hours
HVA 0003	Worker Characteristics	6
HVA 3010	Gas Electric and Heat	180
HVA 3020	Air Conditioning (Cooling)	72
HVA 3030	Heat Pumps	108
HVA 3040	Carbon Monoxide	36
HVA 3050	All Weather Systems Exam	30
Total		432
<i>Heating, Ventilation, and Air Conditioning Technician Diploma</i>		

4th Trimester

Course Code	Course Name	Customary Hours
HVA 0004	Worker Characteristics	6
HVA 4010	Electricity and Controls II	156
HVA 4020	Commercial Refrigeration	252
HVA 4030	Employment Readiness Exam	18
Total		432
<i>Heating, Ventilation, Air Conditioning, and Refrigeration Technician Diploma</i>		