



g r a y s o n . e d u

Heating, Air Conditioning, Refrigeration Technology

Program Description

The Heating, Air Conditioning and Refrigeration Technology (HART) Program at Grayson County College prepares students for opportunities as refrigeration and air conditioning technicians. Instruction is given under actual shop conditions where students develop an understanding of the operation and performance of refrigeration and air conditioning systems and components.

Air Conditioning mechanics install, maintain and repair air conditioning, refrigeration and heating equipment and accessories. They install motors, compressors, evaporators, and other parts. They connect air conditioning duct work, refrigerant lines and piping, and connect the equipment to a power source.

The HART program offers the Associate of Applied Science Degree, the Installer Certificate and the Technician Certificate.

Degree Plan			
First Semester	Semester Hours	Second Semester	Semester Hours
HART 1407	4	HART 1445	4
HART 1401	4	HART 2442	4
ENGL 1301	3	Social/ Behavioral Science	3
Natural Science/ Mathematics	3	Speech 1311	3
	14	Elective	4
			18
Third Semester	Semester Hours	Fourth Semester	Semester Hours
HART 2434	4	HART 2445	4
HART 2449	4	HART 1441	4
DFTG 1405	4	DFTG 1317	3
Humanities/Fine Arts	3	WLDG 1421	4
Elective	3		15
	18		

Technician Certificate			
First Semester	Semester Hours	Second Semester	Semester Hours
HART 1407	4	HART *	4
HART 1401	4	HART *	4
	8		8
Third Semester	Semester Hours	Fourth Semester	Semester Hours
HART *	4	HART *	4
HART *	4	HART *	4
*all six (6) of the remaining HART courses	8		8
Installer Certificate			
First Semester	Semester Hours	Second Semester	Semester Hours
HART 1407	4	HART *	4
HART 1401	4	HART *	4
*any two of the remaining six (6) HART courses	8		8

Certificates

Installer Certificate: Upon completion of HART 1401, HART 1407 and any two of the six (6) remaining HART courses.

Technician Certificate: Upon Completion of the requirements of HART 1401, HART 1407 and all six (6) of the remaining HART courses.

Course Requirements

The Associate Degree, The Technician Certificate and the Installer Certificate require that you have a High School Diploma or an equivalent .

The Associate of Applied Science Degree requires that you have taken and passed the THEA test..

Capstone Experience

Graduation with a Installer, Technician Certificate or an Associate of Applied Science Degree in Heating, Air Conditioning and Refrigeration Technology requires successful completion of a Comprehensive Exit Exam.

Job Outlook

Job prospects for highly skilled Heating, Air Conditioning, and Refrigeration technicians are expected to be very good, particularly those with technical school or formal apprenticeship training to install, remodel, and service new and existing systems. In addition to job openings created by rapid employment growth, thousands of openings will result from the need to replace workers who transfer to other occupations or leave the labor force.

Employment of Heating, Air Conditioning, and Refrigeration technicians is expected to increase faster than the average for all occupations through the year 2005. As the population and economy grow, so does the demand for new residential, commercial, and industrial climate control systems. Technicians who specialize in installation work may experience periods of unemployment when the level of new construction activity declines, but maintenance and repair work usually remains relatively stable. People and businesses depend on their climate control systems and must keep them in good working order, regardless of economic conditions.

Anticipated Costs For Two Years

The following are approximate anticipated costs for the HART program. Prices are subject to change without notice.

Tuition (in-district) All Courses	\$2,730.00
Lab Fees	150.00
Matriculation Fees	40.00
Parking Fees	30.00
Student ID	8.00
Tools	425.00
Books	758.00
Approximate Total	4,141.00

Local Employers

Alpine
Worthington
Texas Instruments
MEMC
North Texas Ice

For more information please contact:

Heating, Air Conditioning & Refrigeration Technology Director