

# HVAC, COMMERCIAL AIR CONDITIONING TECHNOLOGY, OCCUPATIONAL CERTIFICATE



## Program Information

The heating, ventilating, air conditioning and refrigeration (HVACR) industry continues to advance technologically, especially in the areas of computerization and sophisticated control systems. Thus, an upward trend increases in the changing skill sets required for successful service technicians. Students who are passionate about progressive technology and are interested in a satisfying, high-demand career based on skill should explore the San Jacinto College Air Conditioning Technology program.

The San Jacinto College Air Conditioning Technology (HVACR) program:

- Is designed to provide students with the necessary skills required to become a state licensed independent business owner/contractor, or for employment in the industry as a technician in residential, commercial, and/or industrial air conditioning, refrigeration, and heating; and
- Is made up of a curriculum that provides the basic preparation for entry-level jobs in the fields of air conditioning, refrigeration, and heating with initial focus on troubleshooting and service. As the student advances through the program, related topics of indoor air quality, load calculation, system design, and industry code standards are also covered.

## Additional Information

The Fast Track to HVACR program allows students to complete an Occupational Certificate in just 16 weeks – one semester.

Upon completion of each certificate, students may register with the Texas Department of Licensing and Regulation (TDLR).

## Career Opportunities

Graduates of the Air Conditioning Technology program will enter a high-demand field with excellent wage earning potential. Presently, industry advisors say the demand for technicians has a 10-year backlog, and a 21 percent growth rate, faster than the average for all occupations.

Graduates of the San Jacinto College Air Conditioning Technology program have the opportunity to work as:

- Residential/commercial technicians,
- Industrial or maintenance technicians,
- Independent business owner or contractors, and
- Refrigeration technicians.

## Earning Potential

Heating and air conditioning mechanic and installer. \$50,673<sup>1</sup>

<sup>1</sup> Source: [texaswages.com](http://texaswages.com) (<http://texaswages.com>), median salary Gulf Coast region, 2019

For more information, students may contact North campus for Commercial HVACR at 281-998-6150, x7264 or South campus for Residential HVACR at 281-998-6150, x3777.

## Campuses

North Campus  
South Campus

## Information

The Commercial Air Conditioning program is offered at the San Jacinto College North campus. The Residential Air Conditioning program is offered at the San Jacinto College South campus. Both programs offer an Occupational Certificate, a Certificate of Technology, and an Associate of Applied Science (AAS) degree. The North campus also offers the Level 2 Certificate. All courses in each certificate apply to the commercial or residential AAS.

## Occupational Certificate

The Commercial Air Conditioning Occupational Certificate is a fast-track training option that provides an opportunity to enter the commercial air conditioning industry with a Federal EPA 608 Universal License after only one semester. Students can be registered and certified through the Texas Department of License and Regulations in air conditioning technology. All courses in this certificate program apply to the Associate of Applied Science (AAS) degree for those students wishing to continue their education.

## Admission

No admission requirements.

Job entry requirements:

For students in this course who may have a criminal background, please be advised that your criminal history could keep you from being licensed by the state of Texas. If you have a question about your background and licensure, please speak with your faculty member or Department Chair. Reference Texas House Bill 1508.

## Plan of Study

North Campus  
6AIRC-C

First Term		Credits
HART 1401	Basic Electricity for HVAC	4
HART 1407	Refrigeration Principles	4

2 HVAC, Commercial Air Conditioning Technology, Occupational Certificate

HART 1445	Gas and Electrical Heating	4
HART 2441	Commercial Air Conditioning	4
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>16</b>

**Capstone Experience:** HART 2441 Commercial Air Conditioning