AIR CONDITIONING TECHNOLOGY, OCCUPATIONAL CERTIFICATE



Program Information

The Heating, Ventilating, Air Conditioning, and Refrigeration (HVACR) industry is rapidly evolving with technological advancements, particularly in computerization and sophisticated control systems. These changes are driving a high demand for highly skilled service technicians, a demand that you, as a prospective student, can fulfill. If you're passionate about cutting-edge technology and seeking a rewarding, high-demand career, the San Jacinto College Air Conditioning Technology program is an excellent choice.

San Jacinto College Air Conditioning Technology (HVACR) Program Highlights:

- Comprehensive Skill Development: This program equips students with the skills to pursue careers as state-licensed independent business owners/contractors or as technicians specializing in residential, commercial, and industrial HVACR systems.
- Career-Focused Curriculum: The program is designed to equip you
 with the skills and knowledge needed for a successful career in
 the HVACR industry. It begins with foundational training for entrylevel positions, emphasizing installation, troubleshooting, and
 servicing of air conditioning, refrigeration, and heating systems. As
 you progress, you will explore advanced topics, including indoor air
 quality, load calculations, system design, and adherence to industry
 code standards, ensuring you are well-prepared for the challenges of
 the industry.

Whether you aspire to start your own business or build a career in the HVACR industry, this program prepares you for success in this ever-evolving field.

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 become registered with the state by registering 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 owners or contractors, and
- · Refrigeration technicians.

Earning Potential

Heating, Air Conditioning, and Refrigeration Mechanic and Installer. \$58,069¹

Source: texaswages.com (http://texaswages.com), median salary Gulf Coast region, 2023

For more information, students may contact North campus at 281-998-6150, x7264 or South campus at 281-998-6350, x3587.

Campuses

North Campus South Campus

Information

The Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) field is teeming with exciting opportunities and the potential for significant career growth. As an essential component of modern infrastructure, HVAC/R systems are crucial for maintaining comfortable living and working environments worldwide. Here's why a career in this industry could be your ideal choice:

Why Choose a Career in HVAC/R?

- High Demand and Job Security: HVAC/R technicians are consistently in demand due to the necessity of climate control systems in homes, businesses, hospitals, and more. This demand ensures long-term job security and stability.
- Diverse Work Environments: Technicians have the opportunity to work in a variety of settings, from residential homes to large commercial facilities like office buildings and hospitals, making the work dynamic and engaging.
- Hands-On and Independent Work: Experience the satisfaction of solving complex problems and working with your hands. HVAC/R careers involve diagnosing issues, troubleshooting, and repairing systems either independently or within small teams.

Career Growth and Specialization Opportunities

- Specialization Options: The HVAC/R field offers numerous paths for specialization, such as residential HVAC, commercial refrigeration, energy management, or green technologies like solar-powered systems. This allows you to tailor your career to your interests.
- Pathways to Advancement: Begin as an entry-level technician and progress to senior roles like project manager or service manager. With experience, you might even start your own business.
- Continued Learning: The industry encourages ongoing education with certifications that enhance skills and earning potential. Certifications

are highly valued across the industry and can significantly boost your career

Future-Proof Your Career

- Technological Advancements: Stay at the forefront of innovation with smart thermostats, IoT integration, and advanced diagnostic tools transforming the industry. Keeping up with these advancements ensures a competitive edge.
- Green Energy Opportunities: As the world shifts towards sustainability, expertise in green HVAC/R systems becomes increasingly valuable. This aligns with global environmental goals and offers a fulfilling career path.

Embark on an exciting journey in the HVAC/R industry where every day presents new challenges and opportunities for growth. Whether you're passionate about technology, sustainability, or hands-on problem-solving, this field has something to offer everyone.

Occupational Certificate

The College designed the Air Conditioning Technology Occupational Certificate program to provide students with foundational knowledge, skills, and abilities for entry-level employment in the residential and light commercial heating, ventilation, air conditioning, and refrigeration industry. The purpose of this certificate is to provide short-term training, usually completed in one semester, for the student to move quickly into the air conditioning and refrigeration career field. Students are eligible for the certificate indicated upon completion of the designated courses. All the courses in this certificate apply toward the Certificate of Technology and the Associate of Applied Science (AAS) degree.

Admission

No admission requirements.

Job entry requirements:

In accordance with Texas House Bill 1508, the College informs all students in this program who may have a criminal background that a criminal history could keep graduates from being licensed by the state of Texas. Students with any questions about their background and licensure may speak with the Department Chair.

Plan of Study

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First Term		Credits
HART 1401	Basic Electricity for HVAC	4
HART 1407	Refrigeration Principles	4
HART 1441	Residential Air Conditioning	4
HART 1445	Gas and Electrical Heating	4
	Credits	16
	Total Credits	16

Capstone Experience: HART 1441 Residential Air Conditioning