

OUR

MISSION

The purpose of Premier Technical Institute is to educate, empower and enable students to become successful as they become employed in the heating and air conditioning industry.

Premier Technical Institute is committed to focusing on high expectations, individual academic success and creating a community of respect through education.

Premier Technical Institute

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Basic Refrigeration, Heating and Air Conditioning (HVAC-R) Program

ADMISSION REQUIREMENTS:

Applicants must meet all the following requirements before being admitted into the Basic Refrigeration, Heating and Air Conditioning (HVAC-R) Program at Premier Technical Institute: The applicant must schedule an interview with the admissions office and submit a completed application. Applicants must be a United States citizen or have proof of current permanent residency and be able to speak either English fluently.

CLASS SCHEDULES:

Day classes are scheduled Monday through Saturday from 7:30 AM – 5:30 PM for full-time students. Part-time night class schedule will be held on Tuesday, Wednesday and Thursday from 7:00 PM – 10:00 PM. Part-time Saturday class schedule will be held on Saturdays only from 7:30 AM – 4:30 PM. Classes will receive various breaks throughout the day (see schedule below) with a half hour lunch beginning at 12:20 PM. Upon completion of the program, the student will be issued a Certificate of Completion through Premier Technical Institute. Upon successfully completing all written and laboratory examinations, the student will receive a Basic Refrigeration, Heating and Air Conditioning Certificate of Completion.

OBJECTIVE:

The Basic Refrigeration, Heating and Air Conditioning (HVAC-R) Program is designed to provide the student with the skills and competencies necessary to perform entry-level central heating and air and basic refrigeration on residential and commercial units. Through hands-on experience the student will be able to work on a variety of central heating and air and refrigeration equipment. The graduate will qualify for employment as an HVAC technician and be able to diagnose HVAC and refrigeration equipment.

The Basic Refrigeration, Heating and Air Conditioning (HVAC-R) Program offers a total of 108 hours of student instruction, which includes classroom and lab (Lab includes, but is not limited to simulations, observations)

SUBJECT DESCRIPTIONS:

HVAC-100 Basic Theory of Refrigeration:

The student will learn the basic refrigeration and refrigeration cycle and components as well as tool and equipment safety. The student will also obtain knowledge of humidity as it relates to the refrigeration cycle. Students will learn every type of compressor and compression action, be able to identify air-cooled and water-cooled condensers. The student will be able to identify all types of standard and specialty evaporators, learn how to operate metering devices recognized by the industry. Lastly, students will understand the molecular theory as it relates to refrigeration.

Prerequisites: None

Lecture/Lab Contact Hours: 18/18

Quarter Credit Hours: 3.0

HVAC-200 Fundamental of Electricity and Controls:

The student will learn basic electricity circuits such as voltage, amperage, Ohms law, methods of producing an electronic potential. The student will also obtain knowledge of magnetism, types of electrical circuits and transformers. The student will be able to work with HVAC and refrigeration motors, magnetic contractors, refrigeration compressor motors, starting relays, capacitors, meters and symbols as they relate to HVAC and refrigeration systems.

Prerequisites: None

Lecture/Lab Contact Hours: 18/18

Quarter Credit Hours: 3.0

HVAC-300 Heating: Gas and Electric:

The student will learn basic heating components and pumps, furnace types and construction, forced-air duct arrangements, blower controls and unit heaters. The student will also learn gas furnace operation, venting and efficiency as well as radiant heat and gas-fired heating system service.

Prerequisites: None

Lecture/Lab Contact Hours: 18/18

Quarter Credit Hours: 3.0

LICENSURE:

Premier Technical Institute approved and regulated by the Texas Workforce Commission (TWC) Career Schools and Colleges Section.

Career Schools and Colleges

Proprietary Schools Section

Texas Workforce Commission

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