



Air Conditioning Installer

Certificate (21 SCH*)

*Semester Credit Hour

7/2023

First Semester - 12 SCH

HART 1301 - Basic Electricity for HVAC
HART 1303 - Air Conditioning Control Principles
HART 1307 - Refrigeration Principles
HART 1310 - HVAC Shop Practices and Tools

Second Semester - 9 SCH

HART 1341 - Residential Air Conditioning
HART 1345 - Gas and Electric Heating
HART 2338 - Air Conditioning Installation & Startup

Marketable Skills

- Test electrical circuits or components for continuity, using electrical test equipment.
- Repair or replace defective equipment, components, or wiring.
- Connect heating or air conditioning equipment to fuel, water, or refrigerant source to form complete circuit.
- Install, connect, or adjust thermostats, humidistats, or timers.
- HVAC and Refrigeration controls.
- Installation and service of residential and commercial cooling and heating systems.

Program Outcomes

- Install and repair refrigerators, freezers, and window air conditioners.
- Install and repair split or package residential air conditioning systems, including electric furnaces, gas furnaces and heat pumps.

High School Endorsements

Business and Industry

Additional Educational Opportunities

Associate of Applied Science in Air Conditioning

Expected Salary

Texas wage data: workers on average earn \$48,030; 10% of workers earn \$30,190 or less; 10% of workers earn \$72,010 or more.

Career Opportunities

Consulting; Controls Technician; Customer Service; Dispatcher/ Coordinator; Distributor; Distributor Counter Sales; Energy Auditor; Equipment Performance Testing Specialist; Estimator; Field Technical Specialist; Field Supervisor; HVAC Equipment Dealer; IAQ Inspector; Inside Sales and Outside Sales; Installer; Product Technical Support; Project Manager; Public Relations; Purchasing; Sheet Metal Fabrication; Parts Store Manager; Technical Training Instructor; Shop Maintenance; Service Technician; Contractor.