

Architecture and Construction Career Cluster

The Architecture and Construction Career Cluster focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management.

HVAC and Sheet Metal Statewide Program of Study



The HVAC and Sheet Metal program of study explores the occupations and educational opportunities associated with installing, serving, or repairing heating and air conditioning systems and also the fabrication, assembly, installation, and repair of sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings. This program of study may also include exploration into preparing cost estimates for certain construction projects involving heating and air conditioning and sheet metal.

Secondary Courses for High School Credit

Suggested Coursework at LHS:

- Construction I

Level 3

- Heating, Ventilation Air Conditioning (HVAC) and Refrigeration Technology I
- Heating, Ventilation Air Conditioning (HVAC) and Refrigeration Technology II #

Level 4

- Sheet Metal Technology
- Practicum in HVAC #

***CTE Completer: 3 or more courses for 4 or more credits**

Postsecondary Opportunities

Associates Degrees

- Business Administration and Management, General
- Mechanical Engineering
- Heating, Ventilation, Air Conditioning and Refrigeration Engineering Technology/ Technician
- Business/ Commerce, General

Bachelor's Degrees

- Business Administration and Management
- Mechanical Engineering
- Construction Engineering Technology/ Technician
- Business/ Commerce, General

Master's, Doctoral, and Professional Degrees

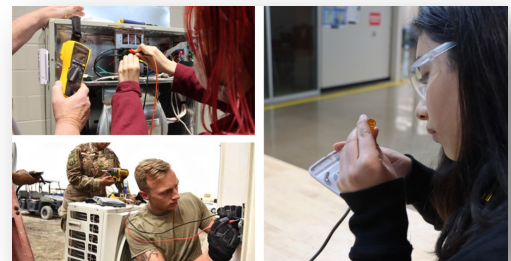
- Business Administration and Management
- Mechanical Engineering
- Construction Engineering
- Business/Commerce, General

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> • Shadow an HVAC worker or cost estimator • Participate in SkillsUSA 	<ul style="list-style-type: none"> • Intern with an HVAC and/or sheet metal company

Industry-Based Certifications

- Employment Ready Certification - Air Conditioning
- Employment Ready Certification – Electrical
- Employment Ready Certification - Gas Heat
- Employment Ready Certification - Heat Pumps
- Employment Ready Certification - Light Commercial Air Conditioning
- HVAC and Refrigeration Technology - Entry Level (TJC)
- HVAC and Refrigeration Technology - Advanced (TJC)



Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Heating, Air Conditioning, and Refrigeration Mechanics	\$41,808	3,356	26%
Sheet Metal Workers	\$37,419	1,479	17%
Cost Estimators	\$63,939	2,239	21%

Successful completion of the HVAC and Sheet Metal program of study will fulfill requirements of the Business and Industry endorsement. Revised – August 2022

HVAC and Sheet Metal Course Information

Suggested Courses at LHS:

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Construction I	13004220 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I	13005800 (1 credits)	None	None
Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II	13005900 (2 credits)	Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in HVAC	13005250 (2 credits)	Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I	None
Sheet Metal Technology	N1300430 (1 credit)	None	None

FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER, PLEASE CONTACT: CTE@tea.texas.gov or LISD CTE Director, Teri Hodges, HodgesTC@lisdeagles.net.
<https://tea.texas.gov/cte>

Lindale ISD does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Jamie Holder, Title IX Coordinator, 903-881-4000.

Further nondiscrimination information can be found at [Notification of Nondiscrimination in Career and Technical Education Programs](#).

*Individualized/accelerated course planning may be available for students participating in these programs. See guidance counselor and CTE Director for more information.