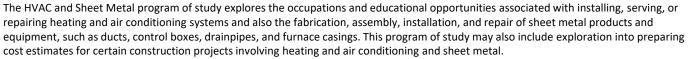
Architecture and Construction Career Cluster

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





Secondary Courses for High School Credit

Level 1

Principles of Construction

Level 2

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

Level 3

- Heating, Ventilation Air Conditioning (HVAC) and
- Refrigeration Technology II
- Sheet Metal Technology

Level 4

- Practicum in Construction Technology
- Practicum in Entrepreneurship
- Career Preparation I

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	
 Shadow an HVAC	 Intern with an	
worker or cost	HVAC and/or sheet	
estimator	metal company	

 Participate in SkillsUSA

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
- Heating, Electrical, & Air Conditioning Technology (H.E.A.T)
- HBI Pre-Apprenticeship Certificate Training (PACT), Core
- HBI Pre-Apprenticeship Certificate Training (PACT), Heating, Ventilation and Air Conditioning
- CCER Construction Technology Certification Level I
- NCCER Core
- NCCER Heating, Ventilation, Air Conditioning Level I
- NCCER Sheet Metal Level I
- Refrigerant Handling (EPA 608)
- OSHA 30 Hour Construction*
- OSHA 30 Hour Construction
 OSHA 30 Hour General*
 - *IBC sunsetting 8/31/24



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

Level 1

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

Level 2

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

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II	13005900 (2 credits)	Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I	None
Sheet Metal Technology	N1300430 (1 credit)	None	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Construction Technology	13005250 (2 credits) 13005255 (3 credits) 13005260 (2 credits) 13005265 (3 credits)	Construction Technology II; Building Maintenance Technology II; Electrical Technology II; Heating, Ventilation Air Conditioning (HVAC) and Refrigeration Technology II; Plumbing Technology I; or Mill and Cabinetmaking Technology	None
Practicum in Entrepreneurship	N1303425 (2 credits)	None	None
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER, PLEASE CONTACT: <u>CTE@tea.texas.gov</u> <u>https://tea.texas.gov/cte</u>

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Further nondiscrimination information can be found at <u>Notification of Nondiscrimination in Career and Technical</u> <u>Education Programs</u>.