

# 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.

## Masonry Statewide Program of Study



The Masonry program of study explores the occupations and educational opportunities related to laying and binding materials, such as brick, structural tile, concrete block, and other types of mortar and substances to construct or repair walls and other structures. This program of study may also include exploration into raising and uniting iron or steel to form completed structures or structural frameworks and building structures using stone.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Construction

#### Level 2

- Masonry Technology I

#### Level 3

- Masonry Technology II

#### Level 4

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

### Postsecondary Opportunities

#### Associates Degrees

- Mason/ Masonry

#### Bachelor's Degrees

- Construction Science

#### Master's, Doctoral, and Professional Degrees

- Construction Management

### Work-Based Learning and Expanded Learning Opportunities

#### Exploration Activities

- Job shadow a brickmason, stonemason, or ironworker
- SkillsUSA

#### Work-Based Learning Activities

- Intern with a person working within masonry

### Industry-Based Certifications

- HBI Pre-Apprenticeship Certificate Training (PACT), Brick Masonry
- HBI Pre-Apprenticeship Certificate Training (PACT), Core
- NCCER Core
- NCCER Masonry, Level I
- NCCER Masonry, Level II
- NCCER Construction Technology Certification Level I

- OSHA 30 Hour Construction\*
- OSHA 30 Hour General\*

\*IBC sunseting 8/31/24



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Brickmasons and Blockmasons	\$44,013	605	47%
Cement Masons and Concrete Finishers	\$32,739	2,883	12%
Cost Estimators	\$63,939	2,239	21%

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

# Masonry 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
Masonry Technology I	13006300 (2 credits)	None	None

## Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Masonry Technology II	13006400 (2 credits)	Masonry Technology I	None

## Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Masonry Technology	13006450 (2 credits) 13006455 (3 credits) 13006460 (2 credits) 13006465 (3 credits)	Masonry Technology II	None
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: [CTE@tea.texas.gov](mailto:CTE@tea.texas.gov)  
<https://tea.texas.gov/cte>

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