

# 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.

## Construction Management and Inspection Statewide Program of Study



The Construction Management and Inspection program of study explores the occupations and educational opportunities associated with cost estimates for construction projects or services to aid management in bidding on or determining the price of products or services. This program of study may also include exploration into inspecting structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Construction

#### Level 2

- Building Maintenance Technology I
- Construction Management I

#### Level 3

- Building Maintenance Technology II
- Construction Management II

#### Level 4

- Practicum in Construction Management
- Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

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

#### Bachelor's Degrees

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

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

- Materials Engineering
- Business Administration and Management, General
- Mechanical Engineering
- Manufacturing Engineering

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> <li>Shadow a building inspector or cost estimator</li> <li>Participate in SkillsUSA</li> </ul>	<ul style="list-style-type: none"> <li>Intern with a construction company</li> <li>Shadow a project manager or inspector</li> </ul>

### Industry-Based Certifications

- Certified Associate in Project Management (CAPM)
- HBI Pre-Apprenticeship Certificate Training (PACT), Building Construction Technology
- HBI Pre-Apprenticeship Certificate Training (PACT), Core
- LEED Green Associate
- NCCER Construction Site Safety Technician
- NCCER Construction Technology Certification Level I
- NCCER Core
- NCCER Weatherization Technician Level I
- Residential Plans Examiner - R3
- OSHA 30 Hour Construction\*
- OSHA 30 Hour General\*

\*IBC sunseting 8/31/24



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Construction and Building Inspectors	\$53,914	983	17%
Cost Estimators	\$63,939	2,239	21%
Construction Managers	\$87,402	2,401	14%

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

# Construction Management and Inspection 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
Building Maintenance Technology I	13005400 (2 credits)	None	None
Construction Management I	13004900 (2 credits)	None	None

## Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Building Maintenance Technology II	13005500 (2 credits)	Building Maintenance Technology	None
Construction Management II	13005000 (2 credits)	Construction Management I	None

## Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Construction Management	13006200 (2 credits) 13006205 (3 credits) 13006210 (2 credits) 13006215 (3 credits)	Construction Management II	None
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

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

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