

Architecture and Construction Career Cluster

The Architecture and Construction Career Cluster focuses on designing, planning, managing, building, and maintaining the built environment. This career cluster includes occupations ranging from architect, carpenter, and construction manager to electrician, plumber, and heating, air conditioning and refrigeration technician.

Construction Technology



The Construction Technology program of study explores the occupations and educational opportunities related to constructing, installing, or repairing structures and fixtures made of wood, such as concrete forms (including frameworks, partitions, joists, studding, rafters, and stairways). This program of study may also include exploration into installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings.

Secondary Courses for High School Credit

Level 1

- Principles of Construction ¹

Level 2

- Construction Technology I

Level 3

- Construction Technology II

Level 4

- Practicum in Construction Technology (H)



Postsecondary Opportunities

Associates Degrees

- Construction Management
- Construction Engineering Technology
- Carpentry

Bachelor's Degrees

- Construction Engineering
- Project Management
- Building/Construction Site Management

Master's, Doctoral, and Professional Degrees

- Construction Management
- Project Management

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
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- Participate in SkillsUSA & Technology Student Association (TSA)
- Obtain an NCCER
- Shadow a carpenter or millwright

Industry-Based Certifications

- NCCER Core ¹



Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Carpenters	\$48,00	5,600	15%
Construction & Building Inspectors	\$67,000	1,600	9%
Construction Managers	\$104,000	6,300	24%

Successful completion of the Construction Technology program of study will fulfill requirements of the Business and Industry endorsement. Revised – March 2024

Construction Technology Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE LEVEL(S)
Principles of Construction	13004220 (1 credit)	None	9

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE LEVEL(S)
Construction Technology I	13005100 (2 credits)	Principles of Construction	10

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE LEVEL(S)
Construction Technology II	13005200 (2 credits)	Construction Technology I	11

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE LEVEL(S)
Practicum in Construction Technology (H)	13005250 (2 credits)	Construction Technology II	12

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

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