



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 provides an overview of the various fields in the construction industry including architecture, interior design, construction management, carpentry, electrical, plumbing, HVAC, and masonry.

Statewide Program of Study: Carpentry

The Carpentry program of study focuses on occupational and educational opportunities related to constructing, installing, and repairing structures and fixtures made of wood including frameworks, partitions, joists, studding, rafters, and stairways. The program of study includes 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

Level 2 • Construction Technology I
• Entrepreneurship I

Level 3 • Construction Technology II

Level 4 • None

Aligned Advanced Academic Courses

Dual Credit

Dual credit offerings will vary by Local Education Agency.

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards Completer status for this program of Study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities

- Intern with a carpenter to practice skills such as measuring materials and assembling structures
- Participate in a pre-apprenticeship which includes activities like installing cabinets, drywall, and siding

Expanded Learning Opportunities

- Shadow a construction manager to learn more about how construction teams work together to complete projects
- Participate in SkillsUSA
SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. We help each student excel. A nonprofit national education association, SkillsUSA serves in preparing students for careers in trade, technical and skilled service. Students compete at the regional, state, and national levels in Skills Assessment Program events, engage in community and leadership service activities, and meet students across the state and country through participation in our programs.

Industry-Based Certifications

- NCCER Core
- NCCER Carpentry Level I



Postsecondary Opportunities

Apprenticeships

- Carpenter

Associate Degrees

- Construction Management
- Construction Engineering Technology
- Carpentry

Bachelor's Degrees

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

Master's, Doctoral, and Professional Degrees

- Construction Engineering Technology
- Construction Engineering
- Construction Management
- Project Management



Example Aligned Occupations

Drywall and Ceiling Tile Installers

Median Wage: \$44,323
Annual Openings: 1,009
10-Year Growth: 5%

Carpenters

Median Wage: \$42,624
Annual Openings: 8,971
10-Year Growth: 14%

Construction Managers

Median Wage: \$78,180
Annual Openings: 6,615
10-Year Growth: 25%

Data Source: Lightcast™. (2022). Occupation Table. Retrieved 9/27/2022.



For more information visit:
<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources>



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Statewide Program of Study: Carpentry

Course Information

	Course	Prerequisites Corequisites	Career Clusters
Level 1	Principles of Construction* 13004220 (1 credit)	Prerequisites: None Corequisites: None	
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Level 2	Construction Technology I 13005100 (2 credits)	Prerequisites: None Corequisites: None	
	Entrepreneurship I 13011101 (2 credits)	Prerequisites: None Corequisites: None	
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Level 3	Construction Technology II 13005200 (2 credits)	Prerequisites: Construction Technology I Corequisites: None	
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Level 4	Course	Prerequisites Corequisites	Career Clusters
	None		

* Indicates course is included in more than one program of study.

For additional information on the Architecture and Construction Career Cluster, contact cte@tea.texas.gov or visit <https://tea.texas.gov/cte>

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