Revised–May 2024

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.

Statewide Program of Study: Construction Management and Inspection

The Construction Management and Inspection program of study focuses on occupational and educational opportunities associated with producing cost estimates for construction projects to support bidding on or determining the price of products or services. The program of study includes inspecting structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations.

THS Course Offerings for Construction Management and Inspection

Level 1 Freshman

- Principles of Construction

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools.

Level 2 Sophomore

- Construction Management I (2.0)

Construction Management I students will gain the knowledge and skills needed to enter the workforce as apprentice carpenters or building maintenance supervisors' assistants or to build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management I includes the knowledge of design techniques and tools related to the management of architectural and engineering projects.

Level 3 Junior

- Construction Management II

Construction Management II students will gain the knowledge and skills needed to enter the workforce as apprentice carpenters or building maintenance supervisors' assistants or to build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering.

Level 4 Senior

- Practicum in Construction Management (2.0)

Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.

- Career Preparation for Programs of Study + Extended Career Preparation (2.0)

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	• Shadow a construction manager to learn how to lead a team and develop a budget • Participate in a pre-apprenticeship to clean and prepare construction sites by digging trenches and setting up scaffolding
Expanded Learning Opportunities	• Shadow a building inspector or cost estimator • Participate in SkillsUSA

Aligned Industry-Based Certifications

- NCCER Construction Site Safety Technician

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



Example Postsecondary Opportunities

Apprenticeships
- Building Inspector

Associate Degrees
- Construction Management
- Construction Engineering Technology
- Building/Property Maintenance
- Building/Construction Site Management

Bachelor's Degrees
- Construction Engineering Technology
- Construction Management
- Building/Property Maintenance

Master's, Doctoral, and Professional Degrees
- Construction Engineering Technology
- Construction Engineering
- Construction Management
- Project Management

Example Aligned Occupations

Construction and Building Inspectors
Median Wage: $62,251
Annual Openings: 1,585
10-Year Growth: 9%

First-Line Supervisors of Construction Trades and Extraction Workers
Median Wage: $64,473
Annual Openings: 9,513
10-Year Growth: 23%

Construction Managers
Median Wage: $95,072
Annual Openings: 6,325
10-Year Growth: 24%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.

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

Construction Management and Inspection