Architecture & Construction Careers



About

Career Description

This field focuses on designing, planning, managing, building and maintaining building structures. People employed in this cluster work on new structures, repairs, restorations, additions, and alterations.

Industry Description

Architecture and construction comprise one of the largest industries in the United States with 13.8 million jobs. The construction industry is divided into three major segments: building construction, heavy and civil engineering construction and specialty trade.

Skills

Anyone preparing for a career in architecture or construction should have an aptitude for math, problem-solving and design concepts.



HIGH SCHOOL CAREER & TECHNICAL EDUCATION



CTE Pathway: Interior Design **Schools:** Smyrna High School **Description:** This program is designed for students interested in residential or commercial interior design. Content covers elements and principles of design, sketching techniques, computer-aided

drafting, board presentation techniques, building technology, building codes, product applications, product testing and project management.



CTE Pathway: Mechanical, Electrical & Plumbing Systems (MEP) **Schools:** Oakland and Rockvale High Schools **Description:** This program prepares students to install, service, and maintain building equipment. Students are provided with the opportunity to understand the principles behind mechanical,

electrical & plumbing systems, apply basic installation skills and safely use and maintain appropriate tools, equipment, and resources to accomplish project goals.



CTE Pathway: Residential & Commercial Construction **Schools:** Oakland High School **Description:** Students will learn the various construction disciplines

to develop a holistic understanding of the building systems and components required for a construction project. Participants will

interpret construction drawings, perform math skills, demonstrate the crafts required for each construction project phase and safely use and maintain equipment, and learn resources to accomplish goals.



RELATED HIGH SCHOOL EXPERIENCES

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Training Certifications

Example Institution: TCAT Estimated Tuition: \$6,000 Jobs: HVAC Technician, Carpenter, Drafting and CAD Technician, Welder,

Industrial Maintenance Mechanic Estimated Salary Range: \$34,000 - \$56,000

Associate's Degree

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Example Institution: Motlow State Community College
Estimated Tuition: \$10,000
Jobs: Civil Engineering Technician, Surveying and Mapping Technicians, Mechanical Engineering Technician, Electrical Engineering Technician
Estimated Salary Range: \$47,000 - \$65,000

Bachelor's Degree



Example Institution: Middle Tennessee State University
Estimated Tuition: \$40,000
Jobs: Construction Management, Surveyor, Building Cost Estimator,
Construction Superintendent, Project Supervisor
Estimated Salary Range: \$50,000 - \$110,000