



Level 1 09719 Principles of Construction

Level 2 19720 Construction Technology I

Level 3 19004 Construction Technology II

Level 4 09725 Practicum in Construction Technology
09775 Career Preparation I (with related WBL position)

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
NCCER Construction Technology	Code Enforcement Officer, Texas Department of Health Code Enforcement	Construction Engineering Technology/ Technician	Construction Engineering Technology/ Technician	Materials Engineering
NCCER Core Curriculum	Certified Cost Estimator/ Analyst	Business Administration and Management, General	Business Administration and Management, General	Business Administration and Management, General
OSHA 30 Hour Construction	Certified Professional Estimator	Mechanical Engineering	Mechanical Engineering	Mechanical Engineering
NCCER Construction Site Safety Technician	Structural Masonry Special Inspector	Business/ Commerce, General	Business/ Commerce, General	Manufacturing Engineering

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%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:	Work Based Learning Activities:
Shadow a building inspector or cost estimator SkillsUSA	Intern with a construction company shadowing project managers or inspectors

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Building Codes 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.



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.

Successful completion of the Construction Management and Inspection program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



GOOSE CREEK CONSOLIDATED INDEPENDENT SCHOOL DISTRICT



COURSE INFORMATION

09719	PRINCIPLES OF CONSTRUCTION	GPA Level: Regular
Grade Level: 9-12	Service ID: 13004220 (1 cr.)	Prerequisites: None

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or skilled craft areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

19720	CONSTRUCTION TECHNOLOGY I	GPA Level: Regular
Grade Level: 10-12	Service ID: 13005100 (2 cr.)	Prerequisites: Principles of Construction

In Construction Technology I, students will gain knowledge and skills needed to enter the workforce as carpenters or building maintenance technicians or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

19004	CONSTRUCTION TECHNOLOGY II	GPA Level: Regular
Grade Level: 10-12	Service ID: 13005200 (2 cr.)	Prerequisites: Construction Technology I

In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills

09725	PRACTICUM IN CONSTRUCTION TECHNOLOGY	GPA Level: Regular
Grade Level: 12	Service ID: 13005250 (2 cr.)	Prerequisites: Construction Technology II

Practicum in Construction Technology students will be challenged with the application of gained knowledge and skills from Construction Technology I and II. 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.

09775	CAREER PREPARATION I	GPA Level: Regular
Grade Level: 12	Service ID: 12701305 (3 cr.)	Prerequisites: Social Security Card or Work Permit; Paid Employment of 15+ hours/week; Transportation; 16 years old

In this class students will have an opportunity to earn high school credit for the job they already have! Students will work at a local business and apply job-specific skills while learning job interview techniques, communication skills, human relation skills, financial and budget planning, and portfolio development during one class period. Students may have up to 2 classes of release time to go to work each afternoon but must have their own transportation to leave campus.

FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER,
PLEASE CONTACT:
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