



Construction Technology (Carpentry) *Business and Industry Endorsement*

This program of study explores the occupations and educational opportunities related to constructing, installing or repairing structures or fixtures made of wood such as concrete forms (including frameworks, partitions, joists, studdings, 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.

To complete the Program of Study, students must earn four credits in the Program of Study and one of the credits must be an Advanced Level course.

HIGH SCHOOL / INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
NCCER Carpentry, Level 1 & 2	Certified Lead Carpenter	Carpentry/ Carpenter	Construction Science	Construction Management	Carpenters	\$35,922	5,031	26%
NCCER Commercial Carpenter	Certified Installer	Industrial Mechanics and Maintenance Technology			Cost Estimators	\$63,939	2,239	21%
NCCER Core Curriculum	Certified Door Consultant							
NCCER Construction Technology	Fluid Power Connector and Conductor							
Additional industry based certification information is available from the TEA CTE website.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES Exploration Activities: Shadow a carpenter or millwright. SkillUSA Work Based Learning Activities: Obtain an NCCER certification in Millwright Level 1 or Carpentry Level 1.			
For more information on postsecondary options for this program of study, visit TXCTE.org.								

Courses in this Program of Study

PRINCIPLES OF CONSTRUCTION

Course 07090800

Recommended Grade Placement 9

1 CREDIT

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. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

CONSTRUCTION TECHNOLOGY I

Course # 07228620

Recommended Grade Placement 10-11

2 CREDITS

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

CONSTRUCTION TECHNOLOGY II

Course # 07228630

Prerequisite: Construction Technology I

Recommended Grade Placement 11-12

2 CREDITS

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

PRACTICUM IN CONSTRUCTION TECHNOLOGY

Course # 07225820

Prerequisite: Construction Technology II

Recommended Grade Placement 12

2 CREDITS

Practicum in Construction Management is an occupationally specific course designed to provide classroom technical instruction or on-the-job training experiences. Safety and career opportunities are included in addition to work ethics and job-related study in the classroom. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills.

CAREER PREPARATION I

Course # 07228902

Recommended Grade Placement 11-12

2 CREDITS

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

Program of Study Courses (Prerequisites noted in course descriptions)

To complete the Program of Study, students must earn four credits in the Program of Study and one of the credits must be an Advanced Level course.

Entry Level Courses	Advanced Courses
Principles of Construction	Construction Technology II
Construction Technology I	Practicum in Construction Technology
	Career Preparation I