



Level 1 Principles of Construction

Level 2 Construction Technology I

Level 3 Construction Technology II
Mill and Cabinetmaking Technology

Level 4 Practicum in Construction Technology **
Extended Career Preparation I **

Successful completion of a **Program of Study** will fulfill requirements of earning an **Endorsement**.

* District Technology Credit **List Driven Course

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
NCCER Core	Certified Lead Carpenter	Carpentry/ Carpenter	Construction Science	Construction Management
OSHA 10-Hour Construction	Certified Installer	Industrial Mechanics and Maintenance Technology		
Forklift Certification	Certified Door Consultant			
	Fluid Power Connector and Conductor			

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

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.

Occupations	Median Wage	Annual Openings	% Growth
Carpenters	\$35,922	5,031	26%
Cost Estimators	\$63,939	2,239	21%



WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
Exploration Activities:	WBL Activities:
Job Shadow SkillsUSA	Obtain an NCCER certification in Carpentry Level 1

COURSE INFORMATION

COURSE NAME	LOCAL COURSE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Construction	12030 (1 credit)	None	9-12
Construction Technology I	12031 (2 credits)	PREQ: Principles of Construction	10-12
Construction Technology II	12032 (2 credits)	PREQ: Construction Technology I	11-12
Mill & Cabinetmaking Technology	12033 (2 credits)	PREQ: Construction Technology I	10-12
Practicum in Construction Technology**	12034 (2 credits)	PREQ: Construction Technology II	12
Extended Career Preparation I **	12255 (3 credits)	PREQ: A sequence of courses from this POS	11-12

* District Technology Credit **List Driven Course

Recommended Technology Credit = Principles of Information Technology or Principles of Arts, A/V Technology

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

CTE Program Managers

Lori Ghazal – lori.ghazal@aliefisd.net

Julie Perrin – Julie.perrin@aliefisd.net

Campus Career Advisors (CCA)

Madalina Noth (Hastings) – Madalina.noth@aliefisd.net

Mary B. Garza (Elsik) – mary.garza@aliefisd.net

Sharmeka Shannon (Taylor) – Sharmeka.shannon@aliefisd.net



Alief ISD does not discriminate on the basis of race, color national origin, handicap or sex. The Alief ISD Career and Technology Education program operates in accordance with the provision in Titles VI, VII and IX and section 504 of the Department of Health, Education and Welfare. Alief ISD program admission procedures, facilities and graduation requirements are designed to eliminate discrimination. Alief ISD will take steps to ensure that lack of English language skills will be not a barrier to admission and participation in all programs, including Career and Technology Education.

Endorsement: Business & Industry

June 2021

