

# Architecture and Construction Career Cluster

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.

## Electrical Tech Statewide Program of Study



The Electrical Tech program of study explores the occupations and educational opportunities associated with installing, maintaining, and repairing electrical wiring, equipment, and fixtures. This program of study may also include exploration into installing and repairing telecommunications cable including fiber optics.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Construction (optional)

#### Level 2

- Complete HS Graduation Requirements

#### Level 3

- Electrical Technology I *and* Project Based Research

#### Level 4

- Electrical Technology II

### Postsecondary Opportunities

#### Associates Degrees

- Electrician
- Communications Systems Installation and Repair Technology

#### Bachelor's Degrees

- Construction Science

#### Master's, Doctoral, and Professional Degrees

- Construction Management

### Work-Based Learning and Expanded Learning Opportunities

#### Exploration Activities

- Shadow an electrician or fiber optics line installer
- Participate in SkillsUSA

#### Work-Based Learning Activities

- Intern or shadow an electrician

### Industry-Based Certifications

- NCCER Core
- HCC Level I Certificate

- OSHA 30 Hour General\*

\*IBC sunseting 8/31/24

### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Electrical Linemen	\$54,184	1,314	28%
Electricians	\$44,013	8,460	21%
Electrical and Electronics Installers	\$37,544	245	19%
Security and Fire Alarm Installers	\$43,638	1,112	22%
Telecommunication Line Installers and Repairers	\$49,150	1,228	10%

Successful completion of the Electrical Tech program of study will fulfill requirements of the Business and Industry endorsement and STEM endorsement if the math and science requirements are met. Revised – August 2022

# Electrical Course Information

## Level 1

COURSE NAME	LOCAL ID SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Construction	CAC10A/B 13004220 (1 credit)	None	None

## Level 2

COURSE NAME	LOCAL ID SERVICE ID	PREREQUISITES	COREQUISITES (CREQ)
Complete HS Graduation Requirements	-	-	-

## Level 3

COURSE NAME	LOCAL ID SERVICE ID	PREREQUISITES	COREQUISITES
Electrical Technology I	CTAC35 13005600 (1 credit)	None	None
Project Based Research	CTAC40 12701500 (1 credit)	None	None

## Level 4

COURSE NAME	LOCAL ID SERVICE ID	PREREQUISITES	COREQUISITES
Electrical Technology II	CAC45A/B 13005700 (2 credits)	Electrical Technology I	None

FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER,  
PLEASE CONTACT: [CTE@tea.texas.gov](mailto:CTE@tea.texas.gov)  
<https://tea.texas.gov/cte>

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Further nondiscrimination information can be found at [Notification of Nondiscrimination in Career and Technical Education Programs](#).