

Architecture and Construction Career Cluster

The Architecture and Construction career cluster focuses on designing, planning, managing, building, and maintaining the built environment. This career cluster includes occupations ranging from architect, carpenter, and construction manager to electrician, plumber and heating, air conditioning and refrigeration technician.



Endorsement: Business & Industry Statewide Program of Study: Electrical Tech.

The Electrical program of study focuses on occupational and educational opportunities associated with installing, maintaining, and repairing electrical wiring, equipment, and fixtures. The program of study also addresses installing and repairing telecommunications cable including fiber optics.



Secondary Courses for High School Credit

9 th Grade	□ Principles of Architecture (Level 1) OR□ Principles of Construction (Level 1)
10 th Grade	☐ Electrical Technology I (Level 2) (KCC)☐ Elective: Entrepreneurship I (Level 2)
11 th Grade	☐ Electrical Technology II (Level 3) (KCC)
12 th Grade	☐ Practicum in Construction Technology (Level 4) (KCC)

A CTE Completer is a student who completes three or more CTE courses for four or more credits including one Level 3 or 4 (advanced level) CTE course within a program of study will fulfill the requirements of a Business and Industry Endorsement.

Aligned Industry-Based Certifications

NCCER Core



Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	 Participate in an internship with an electrical company to develop installation skills Join a pre-apprenticeship program that involves determining if electrical wiring is up to code Interview an electrician about their training and education
Expanded Learning Opportunities	 Participate in SkillsUSA Participate in trade competitions

NAVIANCE ACCESS

All Killeen ISD students (7th – 12th graders) should login to their Naviance account through Clever.

Log into Naviance by clicking the Clever logo or link and use the College SuperMatch Tool to find colleges offering degree plans in this field.







Killeen ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides egual access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Rhea Bell, Title IX Coordinator, 902 N. 10th St., Killeen, TX 76541, 254-336-2822, Rhea.bell@killeenisd.org. Further nondiscrimination information can be found at Notification of Nondiscrimination in Career and **Technical Education Programs**



Apprenticeships

Electrician

Associate Degrees

- **Electrical and Power Transmission Installation**
- **Electrical Power and Controls**
- **Electromechanical Technology**

Bachelor's Degrees

- **Construction Engineering**
- Electrical, Electronic, and Communications
- **Engineering Electrical Engineering**

Master's, Doctoral, and Professional Degrees

- **Construction Engineering**
- **Construction Management**

Additional Stackable IBCs/License

- Journeyman Electrician
- Master Electrician

Example Aligned Occupations

Electricians Helpers

Median Wage: \$38,140 Annual Openings: 1,632 10-Year Growth: 20%

Electricians

Median Wage: \$54,769 Annual Openings: 9,221 10-Year Growth: 27%

Construction Managers

Median Wage: \$95,072 Annual Openings: 6,325 10-Year Growth: 24%

Data Source: Texas Wages, Texas Workforce Commission. Retrieved 3/8/2024 For more information visit:



https://tea.texas.gov/academics/collegecareer-and-military-prep/career-andtechnical-education/programs-of-studyadditional-resources

Electrical Technology



Architecture and Construction Career Cluster

Endorsement: Business & Industry Statewide Program of Study: Electrical



Course Information

IT IS IN THE BEST INTEREST OF THE STUDENT TO TAKE ALL COURSES LISTED IN EACH GRADE

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Course	Prerequisites Corequisites	Career Clusters
Principles of Architecture* 13004210 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
Principles of Construction* 13004220 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	i c .

Level 2 10th Grade

Course	Prerequisites Corequisites	Career Clusters
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Electrical Technology I 13005600 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: Principles of Architecture or Principles of Construction Recommended Corequisites: None	
Entrepreneurship I* 13011101 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: Principles of Business, Marketing and Finance Recommended Corequisites: None	

Level 3 11th Grade

Course	Prerequisites Corequisites	Career Clusters
Electrical Technology II 13005700 (2 credits)	Prerequisites: Electrical Technology I Corequisites: None Recommended Prerequisites: Principles of Architecture or Principles of Construction Recommended Corequisites: None	

Level 4 2th Grade

Course	Prerequisites Corequisites	Career Clusters
Practicum in Construction Technology* First Time Taken: 13005250 (2 credits) Second Time Taken: 13005260 (2 credits)	Prerequisites: Construction Technology II; Building Maintenance Technology II; Electrical Technology II; Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II; Plumbing Technology I; or Mill and Cabinetmaking Technology Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	

^{*} Indicates course is included in more than one program of study.

See your school counselor to connect with a military recruiter for career counseling and to take the ASVAB in high school.