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HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH

**WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES**

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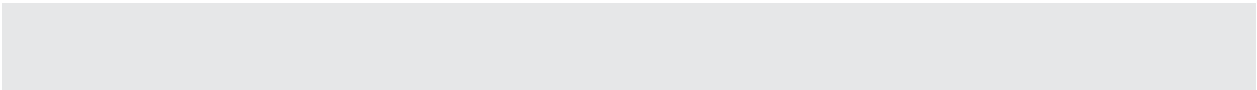
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# COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE

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

<https://tea.texas.gov/cte>

## Electrician

Students who have chosen the program of study of Engineering will complete the following courses and will earn a STEM Endorsement.

### **9th Grade: Principles of Construction (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.

### **10th Grade: Electrical Technology Technology I (1 credit)**

In Electrical Technology I, students will gain knowledge and skills needed to enter the workforce as an electrician or building maintenance supervisor, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications.

### **11th Grade: Electrical Technology II (2 credits)**

In Electrical Technology II, students will gain advanced knowledge and skills needed to enter the workforce as an electrician, a building maintenance technician, or a supervisor; prepare for a postsecondary degree in a specified field of construction or construction management; or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation.

- **This completes the Program of Study. Students are encouraged to sign up for Career Prep, however, it is not a requirement.**

### **12th Grade: Career Prep (2 credits)**

Career Prep is a course that allows the student to earn credit while holding down a part time job. Student's will be able to have early release providing they have their own transportation. Students must be employed and have reliable transportation to sign up for this course.

Students will be able to earn the following industry based certifications:  
Electrical Apprenticeship Certificate Level I

OSHA-30 is a self paced online training that is provided through University of South Florida Health