



# Electrical Technician Occupational Skills Award

IACE1.ELTEC  
OSA1.ELTEC

Texas Southmost College  
Workforce Training and Continuing Education

This program is an introduction to electrical principles, terminology, tools, and skills. Students will learn how to properly use the tools and skills needed for installation, the practical application of electrical systems, and how to compute circuit sizes installation of branch circuits, feeders, and service entrance conductors. This class also includes wiring for residential and medium-sized commercial facilities; including loading calculations, service entrance sizing, proper grounding techniques, and associated safety procedures. The Electrical Technician Program is a 160-hour program of study. Upon completion of both courses, students will have the opportunity to earn an Occupational Skill Award, an OSHA 10-hour certification, and apply for the apprentice license with the State of Texas.



COURSES	Hours
ELPT 1011 Basic Electric Theory	80
ELPT 1000 Basic Electrical Wiring	80
<b>Total Contact Hours for Occupational Skills Award</b>	<b>160</b>

### Learning Outcomes:

- Interpret electrical blueprints/drawings.
- Compute the circuit sizes and overcurrent protection needed for the installation of branch circuits, feeders, and service entrance conductors.
- Explain the proper installation of wiring devices according to the National Electrical Code (NEC) and local electrical codes.
- Identify commercial wiring methods including conduit bending; and demonstrate proper safety procedures.

### Award

TSC Certificate of Completion  
Occupational Skills Award  
OSHA 10-Hour Certification  
Electrical Apprentice License

\*Must successfully complete all courses with a Satisfactory (S).