

**Commercial and Residential Electrician
Associate of Applied Science**

Texas Southmost College
Health Care, Career and Technical Education Division

A degree in Commercial and Residential Electrician will prepare students for entry level positions in an electrician career. It also provides hands-on instruction in all aspects of maintenance, operations, troubleshooting and repair of circuits.

| FIRST YEAR - FALL SEMESTER | CREDIT HOURS |
|---|---------------------|
| ENGL 1301 ⁺ Composition I | 3 |
| MATH 1332 ⁺ Contemporary Mathematics I (Math for Liberal Arts Majors I)..... | 3 |
| ELTN 1391 Special Topics in Electrician | 3 |
| ELPT 1321 Introduction to Electrical Safety and Tools..... | 3 |
| ELPT 1345 Commercial Wiring | 3 |
| FIRST YEAR - SPRING SEMESTER | |
| ELPT 1325 National Electrical Code I..... | 3 |
| ELPT 1329 Residential Wiring | 3 |
| XXXX X3XX ² Social and Behavioral Sciences Elective..... | 3 |
| XXXX X3XX ¹ Language, Philosophy & Culture/Creative Arts Elective..... | 3 |
| SPCH 1315 Public Speaking or | |
| SPCH 1318 Interpersonal Communication..... | 3 |
| SECOND YEAR - FALL SEMESTER | |
| ELPT 1320 Fundamentals of Electricity II..... | 3 |
| ELPT 1315 Electrical Calculations I | 3 |
| ELPT 1341 Motor Control..... | 3 |
| ELTN 1391 Special Topics in Electrician | 3 |
| ELPT 1357 Industrial Wiring | 3 |
| SECOND YEAR - SPRING SEMESTER | |
| ELTN 1343 Electrician Troubleshooting | 3 |
| ELPT 2319 Programmatic Logic Controllers I..... | 3 |
| ELPT 2323 Transformers | 3 |
| ELPT 2325 National Electrical Code II..... | 3 |
| ELPT 2335 Electrical Theory and Devices | 3 |
| TOTAL CREDIT HOURS FOR GRADUATION - 60 | |

⁺ Grade of "C" or better is required for graduation.

¹Language, Philosophy & Culture/Creative Arts Electives: Any General Education Core course that meets these categories

²Social and Behavioral Sciences Electives: Any General Education Core course that meets these categories.

TSI Requirement (Texas Success Initiative - any other state-approved test) - Student must pass all three sections of state-approved test to graduate with this degree.

A minimum grade of "C" must be obtained in each (ELTN, ELPT) course required in the degree plan.