



TEXAS A&M  
Coastal Bend Occupational  
Advanced Skills Training

# AC/DC Electrical Systems



Coastal Bend region residents are invited to attend this training course at **NO COST!**

This 3.5 day course covers the fundamentals of AC/DC electrical systems used in industrial, commercial, agricultural and residential applications.

**Testing will be offered for the SACA C-201: Electrical Systems 1 Silver Certification.** This certification prepares individuals to connect, adjust, operate, troubleshoot, and analyze electrical circuits using basic electrical components: resistors, capacitors, inductors, DC motors, solenoids, manual switches, relays, fuses, circuit breakers, transformers, and indicators.

**Registration is required and seating is limited. Sign up today to save your spot!**



**January 28-31, 2025**



**8:00 AM - 5:00 PM**



**Wingate by Wyndham  
7150 S. Padre Island Drive  
Corpus Christi, Tx 78412**

Registration Link:

<https://my.teex.org/TeexPortal/Default.aspx?MO=mCourseCatalog&D=EC&C=BCS300&S=8>

# AC/DC ELECTRICAL SYSTEMS

This course provides the fundamentals of AC/DC electrical systems used in industrial, commercial, agricultural and residential applications. Through classroom and hands-on training, participants learn to operate, install, design and troubleshoot basic AC/DC electrical circuits for various applications. Topics include using a voltmeter to measure voltage, calculating total parallel resistance, troubleshooting a transformer, and learning about electromagnetic devices, switches and combination circuits.

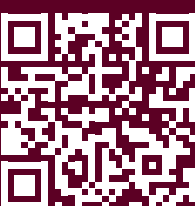
## Why Should You Train in AC/DC Electrical Systems?

A strong understanding of AC/DC electrical systems is essential for many professions and equips you to troubleshoot a variety of machinery and equipment used in your job.

## Course Length

3.5 Days

Learn More



## Learning Topics

- Principles of AC/DC Voltage and Power Generation
- Ohm's Law and Kirchoff's Law
- Series and Parallel Circuits
- Manual Switches and Basic Output Devices
- Fuses and Circuit Breakers
- Resistors, Capacitors and Inductors
- Potentiometers, Solenoids, Control Relays and Circuit Testers
- Circuit Protection Calculations
- System Design and Troubleshooting



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