

# ELECTROMECHANICAL TECHNICIAN

## PROGRAM DETAILS

TSTC’s Electromechanical Technology program provides you with a pre-engineering level education in automation. TSTC also offers a certificate with hands-on training in Electromechanical technology. You will learn how to troubleshoot control systems, programmable logic controller (PLC), pumps and compressors and power devices. In addition, you will learn how to use supervisory control and data acquisition systems (SCADA) and communication networks for smart-manufacturing operations. Join the crew of graduates working for top-notch companies like Chevron, GE and Texas Instruments.



### Electromechanical Technician Pathway

Course	Course Name	Credit Hours
CETT 1303	DC Circuits	3
ELMT 1374	Introduction to Electromechanical System	3
CETT 1325	Digital Fundamentals	3
CETT 1305	AC Circuits	3

### Electromechanical Technician Certificate I

Course	Course Name	Credit Hours
CETT 1303	DC Circuits	3
ELMT 1374	Introduction to Electromechanical System	3
CETT 1325	Digital Fundamentals	3
CETT 1305	AC Circuits	3
ELMT 1301	Programmable Logic Controllers	3
INMT 1317	Industrial Automation	3
ELMT 1305	Basic Fluid Power	3
ELMT 1373	Pumps and Compressors Control	3

## Advanced Manufacturing And Machinery Mechanics Program of Study

The Advanced Manufacturing and Machinery program of study focuses on the assembly, operation, maintenance, and repair of electromechanical equipment or devices. CTE learners may work in a variety of mechanical fields, gaining knowledge and experience in robotics, refinery and pipeline systems, deep ocean exploration, or hazardous waste removal. CTE concentrators may work in a variety of fields of engineering.

TSTC AWARDS	Median Wage
Dual Enrollment Pathway	\$11-\$20/Hour
Certificate I	\$16-\$23/Hour
Certificate II	\$19-\$29/Hour
Associate Degree	\$21-\$32/Hour

## CAREER OPPORTUNITIES



Combine your interest in computers and electronics with our Electromechanical Technology program. These applications are used to run the systems and machines that power many industries. You can find job opportunities in utilities, manufacturing, production, automation and even oil and gas.

You're in a great place to build your career. Texas is the second largest employer of electromechanical technicians in the nation. When you enroll in our Electromechanical Technology program you will learn to use math, science, and engineering principles to solve problems, develop technical skills to design, repair, and service technical equipment.

# Electromechanical Technician Course Information (PEIMS)

## Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
<b>CETT 1303 DC Circuits/ Manufacturing Engineering Technology I</b>	13032900 (1 credit)	None	None

## Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
<b>ELMT 1374 Introduction to Electromechanical System/ Manufacturing Engineering Technology II</b>	13032950 (1 credit)	Manufacturing Engineering Technology I	None

## Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
<b>CETT 1325 Digital Fundamentals/ Practicum in Manufacturing</b>	13033000 (2 credit)	None	None
<b>CETT 1305 AC Circuits/ Practicum in Manufacturing</b>	13033005 (3 credit)	None	None