

TSTC DUAL CREDIT ADVANCED MANUFACTURING

 In Person |  Hybrid

In this program, you will learn how systems work together in a facility. You'll also gain a better understanding of mechanical and electrical principles and apply them to troubleshoot and design highly efficient systems. Students can choose to specialize in either of these areas.

Skills you will learn:

Programmable Logic Controllers (PLC) Programming, Software and Installation | Electrical Design and Repair | Hydraulics and Pneumatics | Welding | Pipefitting | Compressors, Motors, and Pump Repair

TSTC AWARDS:

Dual Credit Pathway

Entry-Level Trainee
Maintenance Helper
Potential earnings: \$14–\$22/HR

Certificate 1 Entry Level

Maintenance, Electrical,
Mechanical Apprentice
Potential Earnings: \$14–\$24/HR

Certificate 1

Entry-Level Electrician, Mechanic
and Maintenance Technician,
Maintenance Intern
Potential earnings: \$15–\$25/HR

Certificate 2

Apprentice
PCS Technician
Potential earnings: \$18–\$30/HR

Associate of Applied Science

Maintenance Technician
Maintenance Lead
Potential earnings: \$25–\$40/HR

Hourly rates will vary across the state depending on the industry. Presented salaries are based on input from program advisory committees.



DUAL CREDIT



POST-HIGH SCHOOL



60 COLLEGE CREDITS

ASSOCIATE DEGREE

MECHANICAL SPECIALIZATION |
ELECTRICAL | ADVANCED
MANUFACTURING TECHNOLOGY

JUNIOR YEAR

CETT 1303: DC Circuits
INMT 1305: Introduction
to Industrial Maintenance

SENIOR YEAR

CETT 1305: AC Circuits
ELPT 1341: Motor Controls

GRADUATE FROM
HIGH SCHOOL WITH

12 COLLEGE CREDITS

27 COLLEGE CREDITS

CERTIFICATE 1
ELECTRICAL

45 COLLEGE CREDITS

CERTIFICATE 2
MECHANICAL
ELECTRICAL

Some specializations are only available at certain TSTC campuses. Make sure to check with your advisor for more information on specializations available at your nearest campus.

COURSE BREAKDOWN

DUAL CREDIT COURSES (12 CREDIT HOURS)*

CETT 1303: DC Circuits Lab-4hrs, Lecture-2hr, Credit-3hrs	A study of the fundamentals of direct current including Ohm's law, Kirchhoff's laws and circuit analysis techniques.
INMT 1305: Introduction to Industrial Maintenance Lab-4hrs, Lecture-2hr, Credit-3hrs <i>Prereq: CETT 1303 grade "C" or better</i>	Basic mechanical skills and repair techniques common to most fields of industrial maintenance. Topics include precision measuring instruments and general safety rules common in industry, including lock-out/tag-out.
CETT 1305: AC Circuits Lab-4hrs, Lecture-2hr, Credit-3hrs	A study of the fundamentals of alternating current including series and parallel AC circuits, phasors, capacitive and inductive networks, transformers, and resonance.
ELPT 1341: Motor Controls Lab-4hrs, Lecture-2hr, Credit-3hrs <i>Prereq: CETT 1303 grade "C" or better</i>	Operating principles of solid-state and conventional controls along with their practical applications. Includes braking, jogging, plugging, safety interlocks, wirings, and schematic diagram interpretations.

*Courses are subject to change. Sequence of delivery and modalities may vary for high school partners.



GET YOUR FUTURE STARTED!

Scan the QR code or visit
tstc.edu/dualcredit to learn more.

