

INDUSTRIAL SYSTEMS TECHNOLOGY



PROGRAM DETAILS

At TSTC, you will receive hands-on training to install, operate, test, and maintain equipment in various facilities. You will perform industry-standard safety procedures and learn the mechanical and electrical skills to get a job in this industry. Co-ops and internships will help you get your foot in the door.

A degree in Industrial Systems could best be defined as the “jack of all trades” in electrical and mechanical applications.



Industrial Systems Dual Enrollment Pathway

Course	Course Name	Credit Hours
INMT 1305	Introduction to Industrial Maintenance	3
INMT 2303	Pumps, Compressions & Mechanical Drives	3
ELPT 1311	Basic Electrical Theory	3
ELPT 1341 PreReq ELPT 1311	Motor Controls	3

Advanced Manufacturing and Machinery Mechanics Program of Study

The Advanced Manufacturing and Machinery Mechanics 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	\$12 -\$15/Hour
Certificate I	\$12-22/Hour
Certificate II	\$12-25/Hour
Associate of Applied Science	\$12-\$30/Hour

CAREER OPPORTUNITIES



In Industrial Systems, you will learn how systems work together in a facility. You'll also gain a better understanding of mechanical and electrical systems and how to troubleshoot them. You will be able to diagnose and make repairs by applying your training in commercial facilities to build a great career.

As an industrial machinery expert, it will be your job to keep facilities running safely and efficiently. Learn the broad range of skills needed to repair and maintain hydraulic systems, pneumatic equipment, conveyor systems, electrical and mechanical controls and more.

Industrial Systems Technology Course Information

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
INMT 1305 Introduction to Industrial Maintenance/ Manufacturing Engineering Technology I	13032900 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
INMT 2303 Pumps, Compression & Mechanical Drives/ Manufacturing Engineering Technology II	13032950 (1 credit)	Manufacturing Engineering Technology II	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
ELPT 1311 Basic Electrical Theory/ Practicum in Manufacturing	13033000 (2 credits)	None	None
ELPT 1341 Motor Controls/ Practicum in Manufacturing	13033010 (2 credits)	None	None