



**TENNESSEE COLLEGE  
OF APPLIED TECHNOLOGY**  
KNOXVILLE

# Industrial Maintenance/Mechatronics

16 Month Day Program (M-F, 8:00am to 2:30pm)  
Offered at Anderson County Higher Education Center

## About

The Industrial Maintenance/Mechatronics Technology Program (IMM) is designed and managed to produce highly skilled individuals in the areas of mechanical and electrical industrial machinery repair. The program consists of Mechanical Training, to include numerous types of power transmission techniques, belt drive systems, chain drives, alignment methods, and also coupling methods.

Students are trained in pneumatic and hydraulic symbology, operation and application. Student training includes basic electrical motor control, sensors, motor drives, AC and DC motor theory and operation and troubleshooting. The program ends with an extensive training period of Programmable Logic Controller (PLC) training, to include both programming and troubleshooting.

## Curriculum and Courses

All full-time TCAT Knoxville programs include Workplace Characteristic courses each trimester.

- Tech Foundations
- Orientation and Safety
- Mechanical Maintenance
- Hydraulics
- Pneumatics
- Basic Electricity
- Electric Motor Control
- Intro to PLCs, PLCs I
- Intro to Robotics
- Advanced PLCs

## Completion Awards

- 864 Industrial Maintenance Helper Certificate
- 1296 Programmable Logic Controllers Certificate
- 1728 Advance Programmable Logic Controllers Certificate
- 1728 Industrial Maintenance Technician Diploma

Completion Rate (as of 2022)



Placement Rate (as of 2022)



**LEARN MORE!**

## How To Apply

- Complete TCAT Knoxville Application for Enrollment online at [www.tcatknoxville.edu](http://www.tcatknoxville.edu).
- Complete the Free Application For Federal Student Aid (FAFSA) online at [www.studentaid.gov](http://www.studentaid.gov). Our school code is 004025.