

### ABOUT THE PROGRAM

Prepares the learner for entry-level maintenance and production employment. The student will have hands-on learning of basic maintenance and electrical tasks as well as instruction in print and math that pertain to the manufacturing environment. The student will also get a basic understanding of tools and measurement that are used in manufacturing.

### PROGRAM OUTCOMES

- Demonstrate safe work procedures.
- Maintain basic industrial equipment.
- Communicate technical information.

### ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Complete Student Success Tutorial prior to meeting with your program counselor.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*\*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.*

### APPROXIMATE COSTS

\$149.50 per credit tuition (WI resident) plus \$8.97 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit [gotoltc.edu/financial-aid/tuition-and-fees](http://gotoltc.edu/financial-aid/tuition-and-fees) for details.

### SPECIAL NOTE

Students may need to supply their own safety glasses and welding gloves.

### RELATED PROGRAMS

- Certificate embedded in the Maintenance Mechanic and Electro-Mechanical Maintenance Technician Technical Diplomas
- Electro-Mechanical Automation Technology
- Maintenance Mechanic/Millwright Journeyworker

### CONTACT

Lakeshore Admissions Advisor  
 920.693.1366 • [Admissions@gotoltc.edu](mailto:Admissions@gotoltc.edu)

Catalog No.	Class Title	Credit(s)
<b>Term 1</b>		
10804113	College Technical Math 1A OR 10804198	3
	Calculus 1* (4 cr)	
10462107	Tools and Measurement	1
10442100	Safety and Welding Fundamentals	1
10462109	Maintenance Introduction	1
10462111	Maintenance Print Reading	2
10620122	Industrial Wiring	2

**TOTAL 10**

\*Calculus 1 is designed for students planning to transition to a 4-year college following Lakeshore program completion.

*Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2024-2025 rates and are subject to change prior to the start of the academic year.*

**COLLEGE TECHNICAL MATHEMATICS 1A**...prepares the student to solve linear, quadratic, and relational equations; graph; formula rearrangement; solve systems of equations; percent; proportions; and operations on polynomials. Emphasis will be on the application of skills to technical problems. COREQUISITE: Math placement assessment equivalent

**INDUSTRIAL WIRING**...prepares the learner to follow safety procedures; maintain a safe and healthy work environment; construct electrical circuits; measure electrical quantities using a VOM and/or DVM; analyze measured values using electrical circuit laws; construct typical industrial control circuits; and analyze typical industrial control circuits.

**MAINTENANCE INTRODUCTION**...prepares the learner to apply basic safety, mechanics, force, friction, work, and energy; learn terminology related to maintenance; introduction to threaded and non-threaded fasteners and concrete anchoring; learn to use precision measuring tools; introduction to single-phase and three-phase motor wiring. PREREQUISITE: 31462325 Maintenance Tools and Measurement or COREQUISITE: 10462107 Tools and Measurement

**MAINTENANCE PRINT READING**...prepares the learner to read prints; make isometric sketches; interpret orthographic projection drawings, to include sections, surface finishes, and tolerancing. The course when delivered in the evening is self-paced, open-entry/exit, and designed for individualized student needs.

**TOOLS AND MEASUREMENT**...prepares the learner to use hand tools, precision measuring instruments, and torque tools.

**SAFETY AND WELDING FUNDAMENTALS**...introduces the learner to the world of welding, weld shop safety practices, welding terminology, and welding machine setup to industry standards. Learners will be introduced to the three major welding processes: SMAW, GMAW, and GTAW and will build skills welding with each process in the flat, and horizontal positions while using the common welding joints found in industry. The learner will process material using the two major hand-held cutting processes - Oxyfuel and PAC.