

# INDUSTRIAL MECHANICAL TECHNICIAN

**Program Number:** 10-462-1

Associate of Applied Science Degree

**Campus:** Fond du Lac

This program is eligible for financial aid (<http://www.morainepark.edu/financial-aid/>)

The industrial and mechanical sectors run on machinery. Step up to the challenge and keep operations up and running as an industrial mechanical technician with Moraine Park Technical College's hands-on Industrial Mechanical Technician associate degree.

## About the Program

If you like fixing things and the challenge you'll face when no two days are the same, a career as an industrial mechanical technician may be right for you!

MPTC's Industrial Mechanical Technician degree gives students hands-on experience operating, repairing and maintaining machinery and equipment in an industrial environment.

Upon graduation, students can seek entry-level employment in the industrial mechanical maintenance field. For individuals already in the field, elective course-work can be taken to advance your skill-set.

Graduates can also enter a skilled trade or pursue a leadership role in a skilled trade.

## What You'll Learn

Our Industrial Mechanical Technician training includes both classroom and lab experiences in metal fabrication, machining, materials science, refrigeration, hydraulics, lubrication, pipefitting, welding, graphics and electrical controls. Students also learn concepts of component selection, power transmission application, repair and replacement of failed components, alignment, failure analysis, and preventative and predictive maintenance techniques.

Continue your education through Moraine Park's Electromechanical Technology program and advance your career opportunities by extending courses into a third year to obtain two credentials.

## Transfer Opportunities

Earn credits at MPTC and transfer to a four-year college to earn your bachelor's degree.

Visit the Transfer Opportunities (<https://www.morainepark.edu/academics/transfer-information/transfer-to-a-four-year-college/>) page for more information on credit transfer agreements between Moraine Park and four-year colleges, both public and private.

## Admission Process

Standard Admissions (<http://www.morainepark.edu/admissions/new-student/how-to-apply-for-admissions/>) steps details

## Credit for Prior Learning

Earn college credit outside the classroom through Moraine Park's Credit for Prior Learning (CPL) opportunities. Credit opportunities are available for:

- Previous college coursework from prior institutions
- Military training and experience
- Passing of MPTC or national exams
- Skills or knowledge developed on the job or through other life experiences

Visit MPTC's Credit for Prior Learning (<https://www.morainepark.edu/academics/transfer-information/credit-for-prior-learning/>) page for more information.

## Approximate Costs

- \$141.00 per credit (resident)
- \$211.50 per credit (out-of-state resident)
- Online students are not charged out-of-state fees.
- Please refer to the MPTC Student Handbook (<http://www.morainepark.edu/studenthandbook/>) for additional enrollment fee information.

## Financial Aid

Financial Aid is provided to aid eligible associate degree and technical diploma programs with 28 credits or more. Processing can take 6-8 weeks after a student's completed Free Application for Federal Student Aid (FAFSA (<https://studentaid.gov/h/apply-for-aid/fafsa/>)) is received. Visit the Financial Aid (<https://www.morainepark.edu/pay-for-college/financial-aid/>) page to learn more.

## Course Requirements

Course	Title	Credits
<b>Semester 1</b>		
103-159	Computer Literacy - Microsoft Office	1
620-101	DC Circuits	3
620-102	AC Circuits	3
801-136	English Composition 1	3
804-195	College Algebra with Applications	3
890-101	College 101	2
<b>Credits</b>		<b>15</b>
<b>Semester 2</b>		
620-103	Semi-Conductor Devices	3
620-104	Digital Electronics	3
620-115	AC-DC Machinery and Motor Controls	4
804-196	Trigonometry with Applications	3
Behavioral Science Course ( <a href="https://catalog.morainepark.edu/academic-programming/general-education/behavioral-social-science/">https://catalog.morainepark.edu/academic-programming/general-education/behavioral-social-science/</a> )		3
<b>Credits</b>		<b>16</b>
<b>Semester 3</b>		
413-105	National Electrical Code for Maintenance	3
462-108	Interpreting Engineering Drawings	2
462-109	Industrial Motor Controls and Troubleshooting	3
620-105	Industrial Hydraulics and Pneumatics 1	2
<b>6 Additional Technical Studies Credits</b>		<b>6</b>
<b>Credits</b>		<b>16</b>
<b>Semester 4</b>		
462-110	Industrial Fluid Distribution Systems	1
620-106	Industrial Hydraulics and Pneumatics 2	3

801-197	Technical Reporting	3
Social Science Course ( <a href="https://catalog.morainepark.edu/academic-programming/general-education/behavioral-social-science/">https://catalog.morainepark.edu/academic-programming/general-education/behavioral-social-science/</a> )		3
<b>6 Additional Technical Studies Credits</b>		<b>6</b>
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>63</b>

## Program Outcomes

- Demonstrate safe work procedures
- Install industrial equipment and systems
- Maintain industrial equipment and systems
- Troubleshoot industrial equipment and systems
- Repair industrial equipment and systems
- Communicate technical information
- Students will obtain OSHA 10 certification as part of the program.

## Program Opportunities

Additional Technical Studies credits in Semesters 3 and 4 can be chosen from courses in these programs:

- Mechanical Design
- Quality and Advanced Manufacturing Technology
- Water Quality
- HVAC
- Industrial Mechanical Technician/Electromechanical

Please see the academic advisor for specific courses.

## Pathways

- Industrial Mechanical Technician Associate Degree (p. 1)
  - Advanced Industrial Maintenance Certificate (<https://catalog.morainepark.edu/programs/advanced-industrial-maintenance-certificate/>)
  - Basic Industrial Maintenance Certificate (<https://catalog.morainepark.edu/programs/basic-industrial-maintenance-certificate/>)

Earn certificates and an associate degree along this pathway. Start with some courses for entry-level employment, and continue with additional courses for higher wages and job advancement.

## Career Opportunities

- Laborer
- Maintenance Mechanic
- Machine Tool Technician
- Welding
- Industrial Mechanic

## Statewide Median Salary for Recent Graduates

\$47,662