

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

Students will be introduced to industrial maintenance utilizing both classroom and lab experiences, including hydraulics, pneumatics, lubrication, machine automation, pipefitting, engineering drawings, and electrical motor controls. Students will also learn concepts of component selection, mechanical power transmission, repair and replacement of failed components, alignment, 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

Your academic journey can continue at a four-year college or university. Earn your associate degree at Moraine Park and then apply those credits toward a bachelor's degree. Starting at MPTC makes completing a bachelor's degree **affordable**, **accessible** and **convenient**. You can go anywhere as MPTC has transfer agreements with colleges and universities both in Wisconsin and throughout the country.

Visit the Transfer to a Four-Year College (<https://www.morainepark.edu/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

Transform the skills and abilities developed through previous experience into college credit through MPTC's Credit for Prior Learning process.

- Transfer credit from other colleges/universities
- Earn college credit for your military training and experience
- Earn college credit via Advance Placement, CLEP, DANTES/DSST or MPTC Challenge Exams
- Earn college credit from previous/current work and life experiences

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

Approximate Costs

Tuition

Occupational

- \$152.85 per credit (resident)
- \$229.28 per credit (out-of-state resident)

Associate of Arts/Associate of Science

- \$192.20 per credit (resident)
- \$288.30 per credit (out-of-state resident)

Online students are not charged out-of-state fees.

Student Fees

- \$5.00 minimum per course Material Fee
- \$13.76 per-credit Supplemental Fee for Undergraduate courses
- \$4.50 per term mandatory Student Accident Insurance Fee

Please refer to Tuition & Fee Information (<https://catalog.morainepark.edu/admissions-registration/tuition-fee-information/>) for additional enrollment fee information.

Financial Aid

Financial Aid is available for associate degree and technical diploma programs (those that are 2 semesters in length and typically with 28 credits or more). Processing can take 4-5 weeks after a student's completed Free Application for Federal Student Aid (FAFSA (<https://studentaid.gov/h/apply-for-aid/fafsa/>)) is received.

Several factors influence the total cost of your degree, including enrollment fees, the number of credits required, textbooks and equipment. Financial aid (<https://www.morainepark.edu/pay-for-college/financial-aid/>) can assist with those costs.

Course Requirements

Course	Title	Credits
Semester 1		
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
Credits		15
Semester 2		
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 (https://catalog.morainepark.edu/academic-programming/general-education/behavioral-social-science/)		3
Credits		16
Semester 3		
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
6 Additional Technical Studies Credits		6
Credits		16
Semester 4		
462-110	Industrial Fluid Distribution Systems	1
620-106	Industrial Hydraulics and Pneumatics 2	3
801-197	Technical Reporting	3
Social Science Course (https://catalog.morainepark.edu/academic-programming/general-education/behavioral-social-science/)		3
6 Additional Technical Studies Credits		6
Credits		16
Total Credits		63

Career Opportunities

- Maintenance Mechanic
- Machine Tool Technician
- Industrial Mechanic
- Industrial Maintenance Technician
- Field Service Technician
- Lead Production Mechanic

Statewide Median Salary for Recent Graduates

\$70,000

The 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.

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

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.