

METAL FABRICATION

Program Number: 31-457-2

Technical Diploma (1 year)

Campus: Fond du Lac

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

Note: We're redesigning the Metal Fabrication program courses and updating technologies to fit the changing needs of local employers and industry.

Applications are being accepted for Fall 2022 for this program. Individuals interested in starting during the 2021-2022 school year have some courses still available. Contact recruitment@morainepark.edu for more details.

Take your passion for developing a plan, solving problems and working with your hands into a career in metal fabrication with a one-year technical diploma from Moraine Park Technical College.

About the Program

Moraine Park's two-semester Metal Fabrication technical diploma gives students hands-on experience in fabricating metal products from start to finish. Students work on individual and team projects, as well as service-learning projects for the community.

What You'll Learn

In Moraine Park's hands-on metal fabrication courses, students learn how to build metal products from start to finish, read prints and use lean practices in automated cutting, forming and welding. Students also learn gas metal arc welding (GMAW); gas tungsten arc welding (GTAW); and laser, plasma and oxy-fuel cutting.

Upon completion, students are prepared to take the FMA Fundamentals of Metal Fabrication Certificate exam.

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.

Additional Information

Student project may incur additional fees.

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
Semester 1		
103-159	Computer Literacy - Microsoft Office	1
442-331	Welding Print Reading	2
442-357	Gas Metal Arc Welding 1 (GMAW)	2
442-386	Gas Tungsten Arc Welding 1 (GTAW)	2
457-345	Metal Fabrication	4
804-360	Occupational Mathematics 1	2
890-101	College 101	2
Credits		15
Semester 2		
457-146	Advanced Fabrication Techniques	4
457-147	Metallurgy	2
457-148	Metal Cutting and Forming Processes	3
623-162	Manufacturing Processes	3
801-310 or 801-136	Occupational Communication or English Composition 1	1 or 3
804-118	Intermediate Algebra With Applications	4
Credits		17-19
Total Credits		32-34

Program Outcomes

- Demonstrate industry recognized safety practices
- Form materials to detailed drawings
- Cut materials to detailed drawings
- Join materials to detailed drawings
- Layout components/assemblies
- Inspect product

Pathways

- Fabrication Technologies Associate Degree (<https://catalog.morainepark.edu/programs/fabrication-technologies/>)
 - Metal Fabrication Technical Diploma (p. 1)
 - Manufacturing Fundamentals Certificate (<https://catalog.morainepark.edu/programs/manufacturing-fundamentals-certificate/>)

Earn a certificate, technical diploma and 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

- Fabricator
- Press Brake Operator
- Laser Operator
- Robotic Welding Operator

Statewide Median Salary for Recent Graduates

\$37,957