

# WELDING

**Program Number:** 31-442-1

Technical Diploma (1 year)

**Campus:** Fond du Lac, Jackson Regional Center

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

Do you love working with your hands and technology? Make your mark—and a few sparks—with a career in welding through Moraine Park Technical College's 1-year Welding technical diploma.

## About the Program

Want to become a welder? Get the training you need to gain entry-level employment (in less than a year!) in Moraine Park's Welding technical diploma program.

Moraine Park's Welding technical diploma program teaches individuals the welding and fabrication skills needed in today's industries. Through hands-on experience in a welding laboratory, students gain skills in all welding positions.

## What You'll Learn

Upon completion, students will know how to interpret welding drawings, operate metal fabricating equipment, perform thermal cutting, produce gas metal arc welds (GMAW), produce gas tungsten arc welds (GTAW), produce shielded metal arc welds (SMAW), produce flux cored arc welds (FCAW) and demonstrate safety practices.

## Earn Two Diplomas at Once

With an additional 10 credits completed in the summer, students can earn both the Welding technical diploma and the Metal Fabrication technical diploma in just three semesters!

## Transfer Opportunities

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

Visit the Transfer to a Four-Year College (<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

A student project may incur additional fees.

Students must purchase Personal Protective Equipment (PPE) and tools for this program. The supply list is available from the Academic Advisor.

## 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

### Tuition

#### Occupational

- \$146.20 per credit (resident)
- \$219.30 per credit (out-of-state resident)

#### Associate of Arts/Associate of Science

- \$188.90 per credit (resident)
- \$283.35 per credit (out-of-state resident)

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

### Student Fees

- \$4.50 minimum per course Material Fee
- \$12.50 per-credit Supplemental Fee for Undergraduate courses
- \$10 minimum per credit Online Course Fee (Fee suspended for 2023-2024)
- \$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. Visit the Financial Aid (<https://www.morainepark.edu/pay-for-college/financial-aid/>) page to learn more.

While attending Moraine Park during the 2023-24 school year, your estimated cost of attendance for one full year includes tuition of \$4,375 (15 credits for fall and spring semester), fees of \$338, food and housing of \$4,052 (if living with parents, \$9,614 if living on your own), books and supplies of \$2,061, personal expenses of \$2,245, and transportation of \$2,007 for a total of \$15,161. Your direct costs (those costs paid directly to the college) include tuition & fees. The indirect costs (costs not paid to the college) can vary from individual to individual and your own personal needs.

## Course Requirements

Course	Title	Credits
<b>Semester 1</b>		
103-159	Computer Literacy - Microsoft Office	1
442-331	Welding Print Reading	2
442-338	Cutting Processes	1

442-356	Shielded Metal Arc Welding (SMAW)	2
442-357	Gas Metal Arc Welding 1 (GMAW)	2
442-358	Gas Metal Arc Welding 2 (GMAW)	2
457-347	Metallurgy for Welding	1
804-360	Occupational Mathematics 1	2
890-101	College 101	2
<b>Credits</b>		<b>15</b>
<b>Semester 2</b>		
442-359	Flux Core Arc Welding (FCAW)	2
442-370	Introduction to Robotic Welding	2
442-386	Gas Tungsten Arc Welding 1 (GTAW)	2
442-387	Gas Tungsten Arc Welding 2 (GTAW)	2
442-392	Advanced Welding and Metals	2
457-345	Metal Fabrication	4
<b>Credits</b>		<b>14</b>
<b>Total Credits</b>		<b>29</b>

## Program Outcomes

- Demonstrate industry-recognized safety practices
- Interpret welding drawings
- Produce gas metal arc welds (GMAW)
- Produce shielded metal arc welds (SMAW)
- Produce flux core arc welds (FCAW)
- Produce gas tungsten arc welds (GTAW)
- Perform cutting operations

## Pathways

- Metal Fabrication Technical Diploma (<https://catalog.morainepark.edu/programs/metal-fabrication/>)
  - Welding Technical Diploma (p. 1)
    - Gas Metal Arc Welding Certificate (<https://catalog.morainepark.edu/programs/gas-metal-arc-welding-certificate/>)
    - Gas Tungsten Arc Welding Certificate (<https://catalog.morainepark.edu/programs/gas-tungsten-arc-welding-certificate/>)
    - Shielded Metal Arc Welding Certificate (<https://catalog.morainepark.edu/programs/shielded-metal-arc-welding-certificate/>)

Earn certificates and two technical diplomas along this pathway. Start with some courses for entry-level employment, and continue with additional courses for higher wages and job advancement.

## Career Opportunities

- Production Welder
- Pre-Apprentice/Apprentice
- Welder/Fitter
- Finish Welder
- Welder/Fabricator
- Robotic Welding Operator

## Statewide Median Salary for Recent Graduates

\$46,796