



Advanced Metal Fabrication

TECHNICAL DIPLOMA

Program Code: 32-457-1

Mequon Campus

Develop higher-level skills involving the intricate preparation of a part for cutting, fabrication and welding, and producing parts using new techniques and a variety of materials. You will gain advanced skills in operating computer-controlled press brakes and shears, punch, and plasma/laser arc cutting machines.

Career Outlook

Metal fabricators generally work in manufacturing industries. They may be classified in different roles, including sheet metal workers and ironworkers, and may be trained as apprentices.

You can earn the Welding technical diploma on your way to completing this technical diploma.

Program Learning 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

Admission Requirement

- A high school diploma or GED
- Interest in working with metal is recommended



Manufacturing, Construction & Transportation
MILWAUKEE AREA Technical College

matc.edu | 414-297-MATC

Start date: August

For complete information, go to
matc.edu/course-catalog/manufacturing-construction-transportation

To apply for financial aid, visit fafsa.gov School Code: 003866

COURSES

Credits

(1) WELD-313	Shielded Metal Arc Welding ^.....	5
(1) WELD-314	Gas Tungsten Arc Welding ^.....	5
(1) WELD-350	GTAW Processes ^.....	1
(1) WELD-351	Shielded Metal Arc Welding Processes ^	1
(1) WELD-360	Blueprint Reading for Welders ^	2
(1) WELD-380	Welding Trades Mathematics ^.....	1
(2) ENG-340	Workplace Communication ^.....	2
(2) WELD-315	Gas Metal Arc Welding Practices ^.....	5
(2) WELD-316	Layout and Setup Practices ^	5
(2) WELD-352	Gas-Shielded Arc Welding Processes ^	1
(2) WELD-354	Layout and Print Reading Practices ‡ ^	2
(3) CONSTR-302	OSHA Safety/CPR for the Trades ‡	1
(3) MATH-308	Math for Industrial Applications 1	2
(3) MTLFAB-300	Metal Fabrication 1 ‡.....	5
(3) MTLFAB-304	Fixturing ‡	4
(3) WELDTC-107	Fabrication Graphics.....	3
(4) MTLFAB-301	Metal Forming and Press Brake ‡.....	3
(4) MTLFAB-302	Advanced Cutting Process and Techniques ‡.....	4
(4) MTLFAB-303	Metal Fabrication 2 ‡.....	5
(4) WELDTC-105	Weldability of Materials ‡	3

TOTAL CREDITS: 60

() Semester order for full-time students.

‡ Prerequisite required.

^ Counts toward earning the Welding technical diploma.

Program curriculum requirements are subject to change.

Current MATC students should consult their Academic Program Plan for specific curriculum requirements.

Possible Careers

- Fabricator
- Laser Operator
- Assembler
- Welder/Press Operator
- Welder

Related Programs

- Welding
- Welding Technology
- Manufacturing Maintenance
- Tool and Die Making
- CNC Technician
- Machine Tool Operations



10% Post Consumer Recycled



matc.edu or 414-297-MATC
 Wisconsin Relay System 711

Downtown Milwaukee Campus
 700 West State Street

Mequon Campus
 5555 West Highland Road

Oak Creek Campus
 6665 South Howell Avenue

West Allis Campus
 1200 South 71st Street

**MATC Education Center
 at Walker's Square**
 816 West National Avenue, Milwaukee