



Welding

TECHNICAL DIPLOMA

Program Code: 31-442-1

Mequon, Oak Creek and West Allis campuses

Gain the skills to perform production, maintenance and repair welding for manufacturing and construction. Learn about blueprints, equipment maintenance and the various welding processes and settings.

Career Outlook

Demand is high for welders with up-to-date skills; new processes have created many job opportunities for welders with these abilities.

You can earn the Welding Fundamentals certificate on your way to completing this technical diploma. After earning this diploma, your credits can be applied to completing the Advanced Metal Fabrication technical diploma.

Program Learning Outcomes

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

Admission Requirement

- A high school diploma or GED



Manufacturing, Construction & Transportation

MILWAUKEE AREA Technical College

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

TOTAL CREDITS: 30

() Semester order for full-time students.

‡ Prerequisite required.

^ Counts toward earning the Welding Fundamentals certificate.

Program curriculum requirements are subject to change.

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

Possible Careers

- Apprenticeships:
 - Boilermaker
 - Ironworker
 - Sheet Metal Worker
 - Steamfitter
- Quality Assurance Inspector
- Robotic Welding Technician
- Welder (in manufacturing)

Related Programs

- Welding Fundamentals
- Welding Technology
- Advanced Metal Fabrication



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