



Welding

TECHNICAL DIPLOMA

Program Code: 31-442-1

**Mequon, Oak Creek and West Allis campuses
and Walker's Square**

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.

Program Learning Outcomes

- Demonstrate industry-recognized safety practices
- Interpret welding drawings
- Produce gas metal arc welds (GMAW)
- Produce shielded metal arc welds (SMAW)
- Produce flux cored 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

matc.edu | 414-297-MATC

Start dates: August and January

COURSES	Credits
WELD-313	Shielded Metal Arc Welding ^5
WELD-314	Gas Tungsten Arc Welding ^5
WELD-350	GTAW Processes ^1
WELD-351	Shielded Metal Arc Welding Processes ^ ..1
WELD-360	Blueprint Reading for Welders ^2
WELD-380	Welding Trades Mathematics ^1
ENG-340	Workplace Communication ^2 (or) ENG-195 Written Communication ‡
WELD-315	Gas Metal Arc Welding Practices.....5
WELD-316	Layout and Setup Practices.....5
WELD-352	Gas-Shielded Arc Welding Processes1
WELD-354	Layout and Print Reading Practices ‡2

TOTAL CREDITS: 30

‡ 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





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