



Welding Technology

ASSOCIATE DEGREE

Program Code: 10-621-1

West Allis Campus

This program combines practical, theoretical and technical training in welding fabrication. Advanced courses deal with application of welding codes to develop the expertise needed to become a Certified Associate Welding Inspector or Certified Welding Inspector.

Career Outlook

Demand is high for welders with current skills. Graduates typically find employment as welding technicians, robotic welding technicians, quality assurance inspectors, technical sales reps and weld test conductors.

This program features exploratory courses that count toward a credential. Contact an MATC advisor for information.

Program Learning Outcomes

- Demonstrate industry-recognized safety practices
 - Interpret welding drawings
 - Produce gas metal arc welds (GMAW)
 - Produce flux core arc welds (FCAW)
 - Produce gas tungsten arc welds (GTAW)
 - Produce shielded metal arc welds (SMAW)
 - Produce welds using robotic arc welding equipment
 - Maintain robotic arc welding cells and equipment
 - Form materials to detailed drawings
- (For full description, see matc.edu.)

Admission Requirements

- A high school diploma or GED
- One year of high school-level algebra



Manufacturing, Construction & Transportation

MILWAUKEE AREA Technical College

matc.edu | 414-297-MATC

Start dates: August and January

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) ENG-195 Written Communication.....	3
(or) ENG-201 English 1 ‡	
(1) MATH-115 College Technical Mathematics 1 ‡.....	5
(or) MATH-113 College Technical Mathematics 1A‡ and MATH-114 College Technical Mathematics 1B ‡	
(1) WELDT-101 Welding Theory 1	2
(1) WELDT-107 Fabrication Graphics	3
(1) WELDT-111 Welding Practice 1.....	4
(1) WELDT-181 Welding Technology Orientation.....	1
(2) ENG-197 Technical Reporting.....	3
(or) Any 200-level ENG or SPEECH course	
(2) MATH-116 College Technical Mathematics 2 ‡.....	4
(2) WELDT-102 Welding Theory 2	3
(2) WELDT-105 Weldability of Materials ‡.....	3
(2) WELDT-112 Welding Practice 2 ‡.....	4
(3) MATRLS-102 Material Testing.....	3
(3) SOCSCI-103 Think Critically and Creatively	3
(or) Any 200-level HIST or SOCSCI course	
(3) WELDT-113 Welding Techniques 1 ‡.....	3
(3) WELDT-140 Manufacturing Applications for Robots	4
(4) MATRLS-151 Metallurgy and Materials Science.....	3
(4) PSYCH-199 Psychology of Human Relations	3
(or) Any 200-level PSYCH course	
(4) WELDT-114 Welding Techniques 2 ‡.....	3
(4) WELDT-135 Automated Welding Processes ‡	4

TOTAL CREDITS: 61

() Semester order for full-time students.

‡ Prerequisite required.

Program curriculum requirements are subject to change.

This Associate in Applied Science program will transfer to one or more four-year institutions.

Official Wisconsin Technical College System program title: Industrial Welding Technician.

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

Possible Careers

- Quality Assurance Inspector
- Robotic Welding Technician
- Welding Technician
- Weld Test Conductor

Related Programs

- Welding
- Welding Fundamentals
- 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