



# Welding Technology

## ASSOCIATE DEGREE

Program Code: 10-621-1

### West Allis Campus

**Bilingual (Spanish) mode also is offered.**

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, 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 welds to current AWS specifications
- Manufacture products to specifications
- Inspect products
- Operate robotic welding equipment
- Troubleshoot robotic arc welding cell problems
- Produce finished product to specification

### Admission Requirements

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



**Manufacturing, Construction & Transportation**  
**MILWAUKEE AREA Technical College**

**For complete information, go to**  
[matc.edu/course-catalog/manufacturing-construction-transportation](http://matc.edu/course-catalog/manufacturing-construction-transportation)

To apply for financial aid, visit [fafsa.gov](http://fafsa.gov) School Code: 003866

## COURSES

## Credits

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

**TOTAL CREDITS: 61**

‡ 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

- Certified Welding Inspector
- Robotic Welding Technician
- Welding Technician
- Weld Test Conductor
- Trainer
- Welding Manager
- Sales, Service and Technical Support of Welding Equipment

## Related Programs

- Welding
- Welding Fundamentals



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**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