

## Manufacturing Academy

The Gas Metal Arc Welding (GMAW) Technical Diploma program provides a solid foundation in process-specific production welding technology. The program is designed to develop the necessary entry-level competencies for work in the production welding and metal fabrication industries.

Coursework includes all position “mig” welds on steel, stainless steel and aluminum, mechanical and thermal cutting, fabricating parts from prints and assessing weld quality. Students will also get an introduction to precision machining skills.

### LEARN HOW TO:

- Produce Gas Metal Arc Welds (GMAW)
- Interpret welding drawings
- Demonstrate industry recognized safety practices
- Produce precision machined parts by using the lathe and milling machine

### POTENTIAL CAREERS:

- Maintenance and Repair Welder
- Construction Trades Apprentice
- Welder
- Common jobs for students who complete additional education (technical diploma and/or apprenticeship) include machinist, machine setup operator, tool and die maker.

### COURSES OFFERED

10-442-101	Intro to Welding	1
10-442-163	Weld Inspection & Testing	1
10-442-172	Welding Safety	1
10-442-173	Thermal Cutting	1
10-442-181	Weld Print Reading 1	1
10-442-182	Weld Print Reading 2	1
10-442-183	Gas Metal Arc Welding 1	1
10-442-184	Gas Metal Arc Welding 2	1
10-442-185	Gas Metal Arc Welding 3	1
10-442-186	Gas Metal Arc Welding 4	1
10-442-204	Gas Metal Arc Welding 5	1
10-442-205	Gas Metal Arc Welding 6	1
10-420-101	Intro to Machine Shop	2
10-804-107	College Mathematics	3

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**TOTAL CREDITS** **17**

### AVAILABILITY

- In-Person:
  - Phillips: MTWRF, 8:00 – 11:00 a.m., 12:00 p.m. – 3:00 p.m. (August – May)

### COMPLETING THE WELDING ACADEMY EARNS YOU:

- 35% of the total credits in the Welding Technical Diploma (12 of 34 credits)

To apply, contact Crystal Witt-Whybrow, Pre-college Student Specialist, at [wittwhybrow@ntc.edu](mailto:wittwhybrow@ntc.edu) or 715.803.1228.