

NORTH MONTCO TECHNICAL CAREER CENTER

WELDING AND FABRICATION TECHNOLOGY

Welding & Fabrication Technology students learn the skills and techniques necessary for success in a career that values well trained, experienced workers. They learn MIG and TIG welding as well as gas welding and about the operation of welding and metal fabrication machinery.

What you will learn:

- Shielded metal arc welding
- Gas metal arc welding
- Gas tungsten arc welding
- Flux cored arc welding
- Air carbon arc cutting
- Oxy/fuel cutting
- Pipe welding
- Plasma arc cutting
- Basic metallurgy
- Welding inspection and testing
- Blue print reading
- Welding symbol drawing and interpretation

Physical criteria:

- Manual dexterity
- Heavy lifting/carrying
- Strong eye/hand coordination
- Physical stamina/strength

- Pushing/pulling
- Standing for hours in one position

Certification students can earn:

- American Welding Society (All Levels)

Equipment/uniform list:

(With approximate costs)

- Welding Hood – (\$40-50)
- Welding Jacket (\$35-55)
- Pants (Dickies type, black color or jeans) (\$20)
- Leather work boots(steel toed) (\$40+)
- 2 Work shirts (cotton, button down, flame retardant, Dickies type)
- Activity fee \$20
- American Welding Society (AWS) student membership fee payable online (\$15)
<http://www.aws.org/membership/stu.html>

POTENTIAL WELDING CAREER OPPORTUNITIES:

Gas-Metal Arc Welder (MIG), Pipe Welder, Gas-Tungsten Arc Welder (TIG), Steamfitter, Boiler Maker, Millwright, Combination Welder, Iron Worker, Sheet Metal Mechanic, Millwright, Iron Worker, Sheet Metal Mechanic, Millwright

POTENTIAL WELDING CAREER OPPORTUNITIES with Post-Secondary Education:

Welding Engineer, Metallurgist, Welding Inspector, Welding Technician, Welding Sales, Business Owner, Mechanical Engineer, Welding Instructor, Diver/Welder

Class of 2019 graduation plans:

- 50% found employment in this field
- 25% will be joining the military
- 8% plan to further their education in this field
- 8% plan to further their education in an unrelated field
- 8% found employment in an unrelated field

**North Montco Technical Career Center, 1265 Sumneytown Pike, Lansdale, PA 19446
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Northern Montgomery County Technical Career Center does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities and provides equal access to youth groups.