

# 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 – **flipfront only** (\$35)
- All Leather Welding Jacket (\$49)
- Welding Gloves (\$5)
- Chipping Hammer (\$4)
- Wire Brush (carbon steel) (\$2)
- Tip Cleaners (\$2)
- Safety Glasses (clear only w/side shields) (\$5)
- Cotton Welders Hat
- Welper 5-in-1 Tool (\$20)
- Architect Scale (\$5-10)
- Compass (for drawing circles) (\$2)
- Pad of 4x4 graph paper (\$2)
- Two 2” Three Ring Binders, Pencils/Pens (\$10)
- 12’ Tape measure (\$10)
- Welding staff shirt (minimum of one shirt-to be worn daily as uniform) (\$15)
- Pants (Dickies type, khaki color) (\$20)
- Textbook bought from school (\$55)
- Leather work boots(steel toed) (\$40-\$200)
- Notebook
- Soapstone & Holder (flat) (\$1)
- Looseleaf
- Composition book (\$1)

## POTENTIAL WELDING CAREER OPPORTUNITIES

### 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

### With Post-Secondary Education

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

#### Class of 2010 graduation plans:

- 67% plan to continue their education in this field
- 33% found employment in another field

**North Montco Technical Career Center**  
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