

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 (Level 1)

Equipment/uniform list:

(With approximate costs)

- Welding Hood – **flipfront only** (\$35)
- All Leather Welding Jacket (\$49)
- Welding Gloves (\$3)
- 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) (\$13)
- Pants (Dickies type, khaki color) (\$17)
- 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:

- 50% found employment in this field
- 25% will be joining the military
- 25% found employment in another field

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