



***Metal Fabrication
Program Guide***
CIP Code # 48.0508 (2013)

Standard Occupational Classifications	2017 Pennsylvania High Priority Occupations
47-2211.00 Sheet Metal Workers 51-2041.00 Structural Metal Fabricators and Fitters 51-4031.00 Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic 51-4033.00 Grinding, Lapping, Polishing & Buffing Machine Operators, Metal & Plastic 51-4121.06 Welders, Cutters, and Welder Fitters 51-4122.00 Welding, Soldering, and Brazing	47-2211 Sheet Metal Workers ³ 47-2221 Structural Iron and Steel Workers ³ 51-4031 Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic ³ 51-4033 Grinding, Lapping, Polishing & Buffing Machine Operators, Metal & Plastic ³ 51-4121 Welders, Cutters, Solderers & Brazers ³
Industry Accreditation	Student Certifications
American Welding Society (AWS)	ECTS Program Completer or Participant Pennsylvania Skills Certificate AWS SENSE Entry-Level Welder CareerSafe 10-Hour OSHA Construction Industry Certificate

Key: ¹Statewide HPO ²Regional HPO ³Both Statewide and Regional HPO

For more information, go to: <http://online.onetcenter.org/find/family?f=17&g=Go>

METAL FABRICATION

Expected Characteristics and Traits for Success

Students entering this program should possess the following traits:

- Good attendance 95%
- Physically able to lift heavy objects
- Good hand-eye coordination
- Safety conscious – aware of your surroundings
- Able to sit or stand for long periods of time
- Able to work in odd positions for long periods of time

- Able to adhere to personal safety requirements: safety glasses, steel toed boots, long pants, no jewelry or loose fitting clothing
- Able to work safely around potentially dangerous situations such as intense light (arcs), noxious fumes, hot materials, and sharp objects
- Able to visualize abstract ideas
- Math skills algebra or better
- Non-impulsive behavior
- Self-starter who can work alone or with others and stay on task
- A good problem solver
- Good with hands-on work
- Able to communicate thoughts and ideas effectively
- Positive and energetic
- Dependable, honest and ethical
- Eager to please a supervisor/employer

Student Supply Obligations Level 1 Costs are Estimated

3” binder,		\$7.00
12’ tape measure,		\$3.00
12” Combination square		\$10.00
Steel toed boots,		\$30-\$200

Calculator,



\$1.00

Cotton type long pants



Old Jeans

Student Supply Obligations Level 2 & 3

Side cutters or MIG pliers



\$5.00



\$10.00