

Lake Washington Institute of Technology

REQUIRED TOOLS AND EQUIPMENT TO BE PURCHASED

Classroom Supplies (required for all classes)

- Textbook: Welding Principles and Applications 7th ed.
- Textbook: IPT's Guide to Blueprint Interpretation
- 3 ring binder and paper for class notes, papers and homework
- Small spiral bound note pad for welding notes
- Scantron cards and #2 pencils

General Safety Equipment (required for all classes)

- Safety Glasses-clear no colored glasses
- Welding Gloves/Leather work gloves to match process being used.
- Leather Safety Shoes/boots-prefer steel toe
- 100% cotton long sleeve shirt
- 100% cotton long pants
- Hearing Protection

General Shop Equipment (required for all classes)

- Combination Square
- Tape Measure, metric/standard
- Center punch
- Marking scribe
- Soap stone and holder
- Compass for soapstone, for marking circles
- Wire Brush
- Flash light
- Respirator 3M with welding cartridges
- 4 inch Grinder/ grinding wheel, cut-off discs, brush wheel
- Vise grip pliers

WELD 101 OFW Equipment:

- # 5 shaded welding face shield.
- Striker
- Tip Cleaner for torch tips
- # 0 welding tip for a C-100 victor torch

WELD 102 SMAW Equipment

- Welding Helmet - prefer auto darkening. Needed shades for manual helmet are 11, and 12. **Must be ANSI Z.87 appoved!**
- Welding Slag Hammer
- Welders skull cap
- Leather coat **no fire retardant cloth coats.**

WELD 103,104 GMAW/FCAW Equipment

- MIG Pliers/Welpers
- Set of fillet weld gauges
- Stainless steel brush

WELD 105 GTAW Equipment

- 1/16th" ,3/32", and 1/8" collet body and collets for 24 series CK torch
- long length end cap
- Ceramic cups #4, #5, #6, #7, #8.
- Torch Gasket
- Tungsten 1.5% Ceriated sizes 1/16th" ,3/32", and 1/8. **No Thoriated tungsten**