



## Electromechanical Technology

### Tools Required First Day of Classes

Estimated Cost: \$2,000

Quantity	Description
<b>Program Required Tools</b>	
	Tool Backpack or Tool Bag (Example: Milwaukee 48-22-8201 or 48-22-8300)
<b>Personal Protective Equipment:</b>	
1	Clear safety glasses (not goggles)
1	Ear plugs
1	Leather Gloves
<b>3/8" Drive Set – To Include:</b>	
1	6 pt. Standard (1/4" – 7/8")
1	6 pt. Metric (6 – 22 mm)
1	Extension Bars (3" and 6")
<b>Wrench Sets:</b>	
1	11 Standard (1/4" – 7/8")
1	12 Metric (7, 8, 10 – 19 mm)
1	Adjustable Wrench 10"
<b>Nut Driver Set - To Include:</b>	
1	Standard (1/4", 5/16", 3/8", 7/16", 1/2")
<b>Screwdriver Set - To Include:</b>	
1	Phillips #1x 3"
1	Phillips #2 x 4"
1	Slotted 3/16" x 3"
1	Slotted 1/4"x 4"
1	Slotted 5/16"x 6"
1	Square #1
1	Square #2
<b>Precision Screwdriver Set - To Include:</b>	
1	Phillips #0 - 2-1/2" precision screwdriver
1	Phillips #00 – 2" precision screwdriver
1	Slotted 1/16" – 2-1/2" precision screwdriver
1	Slotted 1/8" – 3-1/2" slotted precision screwdriver
1	Slotted 3/32 – 2-1/2" precision screwdriver
1	Slotted 5/32" – 4" precision screwdriver

### **Pliers:**

- 1 Vise Grip Pliers
- 1 Long needle nose pliers
- 1 10" Slip Joint / Pump Pliers
- 1 7" diagonal cutters
- Ball End Hex Key Set
- 1 Standard
- 1 Metric

### **Miscellaneous Tools:**

- VOM Digital Meter (0 to 700 Volts AC & DC, 0 to 2500 millivolts DC, 0 to 10 AC and DC Amps, Ohms 0 to 20 Megohm) CAT III or IV
- 1 (Example Fluke 115 or Ideal 320 series)
- 1 Clamp on amp meter (Fluke-323 or alternate)
- 1 Hammer Nylon-Tip (Less than 1 lb.)
- 1 Pocket Flashlight
- 1 Multifunction Wire Strippers / Cutters 20 to 10 AWG
- 1 Wire Connector & Terminal Crimpers
- 1 Tape Measure – 25'
- 1 Steel Rule: 6" Rigid
- 1 3M ScotchCode STD Wire marker tape dispenser STD-0-9-dispenser (54007-12172)
- 1 Small Drill Index and Tap Set Combination up to ¼" (Example: BOSCH, Item # BDT11S)
- 1 Automatic Center Punch

### **Supplies required for the Related Welding Course:**

- 1 Welding helmet with #10 lens. Fixed or lift front. Can be auto darkening. Extra lenses. No sharing of welding hoods.
- 1 Welding cap
- Welding cutting goggles with #5 lens. Green-2"x4 1/4" fixed front or
- 1 auto welding hood that goes to a shade 4 or 5 lens for cutting.
- 1 Clear safety glasses
- 1 Ear plugs
- 1 Standard pliers
- 1 Mig welding or needle nose pliers
- 1 Shielded metal arc leather and Gas metal arc leather welding gloves
- 1 Chipping hammer
- 1 Carbon steel wire brush
- Economy 4 1/2" grinder with two ¼" grinding wheels and 1 wire
- 1 wheel attachment. You can purchase an inexpensive grinder for under \$20 if you currently don't own one.
- 1 Pocket flashlight
- 1 Bucket or bag to haul supplies in. No lockers available in welding lab area.

**PPE required for Related Welding Course:**

- 1 100% cotton long sleeve work shirt. To be worn under your flame-resistant jacket.  
NO HOODIES
- 1 Flame resistant jacket 100% cotton
- 1 Fitted jeans with no holes or frays
- 1 Leather work boots can be steel toed. No sneakers