



Welding Tool List

Beloit Campus

2021-2022

Following are the required tools for the **Welding** program. These tools can be purchased from the vendor of your choice. All tools are to be of the finest quality. Tools will be inspected prior to being used in the department. The department reserves the right to refuse the use of worn or defective tools or tools which do not conform to the specifications of this list and the department chairperson. Students must have all tools by the first day of class.

Required Tools and Equipment

Qty	Item
1	Leather Cap Sleeve and bib or welding jacket
1	Soft Billed Welding Beanie
1	Metal Marking Scribe
1	Welding Helmet – Fibermetal pipeliner with ratcheting headgear + 25 2x4 cover lenses
1	Safety glasses – Fog Proof
1	Tool Box
1	Face shield with clear lens + headgear
1	Face shield with #5 lens + headgear
1	Silver Streak + refills
1	Atlas Tomahawk chipping hammer
1	Calculator
1	25' tri-tap 12 gauge cord
1	Striker 3 flint + refills
1	WYPO Standard Tip Cleaners – 4 ½ "
1	Lee Little Helper, or Curve-omatic pipe wrap-around
1	Carbon Wire Brush – Shoe Handle type
1	Small carbon steel hand brush
1	5/8" arbor wire wheel
1	5/8" arbor cone stone for I.D. grinding
1	Stainless Steel – Shoe Handle type (needed 2nd semester)
2	10R Vise Grip
2	11R Vise Grip
1	6" Center Punch
1	5/8" Cold Chisel
1	25' Steel Tape Measure – 25' x 1"
1	Metal Combination Square
1	Aluminum Swanson Speed Square
1	T-Bevel (aluminum handle; no plastic)
1	2 1/2# Blacksmith Hammer

1	Multi-purpose screwdriver
1	Welding Gloves with gauntlet
1	Tillman 1414 drivers gloves
1	8" Pliers
1	Leather Pliers Pouch
1	10" Adjustable Plated Wrench (Diamond or Crescent)
1	8" Adjustable Plated Wrench (Diamond or Crescent)
1	Welpers
1	Glove heat shield
1	Crescent/flat file 8" or 10"
2	Heavy duty 6" grinder (Makita, DeWalt, Milwaukee) (one may be cordless if so choose)+ 5- ¼" wheels, 5- 1/8" wheels, 2- wire wheel bead brush, 2- 6" flap disks
1	Rat tail file
1 PKG	3/32 E-3 Tungsten (Weldcraft, Diamond Ground)
1	Torch tip – Victor "0" 0-1-101, or Smith "0" SC-12-0 (Optional)
1	paint marker
1	12 quart or larger galvanized bucket
1	Fillet weld gauge
1	3M respirator 6502QL (typical size M or L)
1	3M respirator advanced particulate filter 2297

Estimated Cost: \$1350 (\$1450 with Lincoln 4C 2x4 quick change lens)

Note: Estimated costs reflect current market value and are subject to change.

Vendor Information:

Tools may be purchased at Matheson in Hasting, Ne, Airgas or the welding supplier of student choice. Please contact the Department Chair, Kyle Kopsa; kkopsa@ncktc.edu or 785-738-9029, with questions or for further information.