



Welding Tool List

Beloit Campus

2024-2025

The 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

Leather cape sleeve and bib or welding jacket

Soft Billed Welding Beanie

Metal Marking Scribe

Welding Helmet – Pipeliner/Outlaw Leather/Pipeliner's Cloud ratcheting head gear + 25 cover lenses

Safety glasses

Toolbox – no larger than 16x22

1-Face shield with clear lens + headgear

1-Face shield with #5 lens + headgear

Silver Streak + refills

Atlas Tomahawk chipping hammer

Soapstone Holder – round

25' tri-tap 12-gauge cord

Striker 3 flint + refills

WYPO Standard Tip Cleaners – 4 ½ "

Lee Little Helper, or Curve-omatic

Carbon Wire Brush – Shoe Handle type

5/8" arbor wire wheel

5/8" arbor cone stone for I.D. grinding

Stainless Steel – Shoe Handle type (needed 2nd semester)

2- 10R Vise Grip

2- 11R Vise Grip

6" Center Punch

5/8" Cold Chisel

25' Steel Tape Measure – 25' x 1"

Metal Combination Square

Aluminum Swanson Speed Square

T-Bevel (Aluminum handle; no plastic)

2 1/2# Blacksmith Hammer

Multipurpose screwdriver

Welding Gloves with gauntlet

Leather drivers gloves- Caiman/Tillman

8" Pliers

Leather Pliers Pouch - Optional

10" Adjustable Plated Wrench (Diamond or Crescent)

8" Adjustable Plated Wrench (Diamond or Crescent)

Welpers

Glove heat shield

Cresant/flat file 8" or 10"

2 - Heavy duty 6" grinder (Makita, DeWalt) + 5- ¼" wheels, 5- 1/8" wheels, 2- Weiler Roughneck wire wheel bead brush, 5 flap discs

Rat tail file

1 Pkg 3/32 E-3 Tungsten (Weldcraft, Diamond Ground)

Torch tip – Victor "0" 0-1-101, or Smith "0" SC-12-0 (Optional)

1 paint marker

10- or 12-quart galvanized bucket

Fillet weld gauge

3M respirator 6502QL (typical size M or L)

3M respirator advanced particulate filter 2297

Estimated Cost: \$1510 (\$1570 - \$1620 with 2x4 quick change lens)

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

Vendor Information:

Tool vendors will be available during Orientation and Tool Days on campus. Tools may be purchased at Matheson in Hasting, Ne, Airgas, or the welding supplier of student choice. Please contact the Department Chair with questions or for further information.