

## Welding Program Tool List

Tools required first day of classes

Estimated Cost: \$725-\$750

The following is equipment and supplies required for training. Please note that there are choices on supplies-lift front helmets, auto darkening helmets, gloves, etc. You may have some of the items listed already. The instructor will advise you if they meet program requirements. Safety equipment is mandatory for all classes because of the nature of the trade. Items need to be ordered in advance (mid-June) so that you have them on first day of class. Most items can be purchased from a welding supply store. Hand tools may be more affordable at other stores. A more professional and safe atmosphere is present when everyone wears the proper attire. Please advise if you have questions. John Knapp 402-844-7201, Norfolk, or Michael McCarthy 402-844-7200, Norfolk or Staff 402-241-6422, South Sioux City

Quantity	Description	Tool Part No.	Price	Check-In
1	Arc Welding Helmet with extra Safety Cover Plates (10) with Shade 10 Filter Lens or Gold Filter Lens. Auto darkening helmet is good also. Because of the different styles of auto darkening hoods it is highly recommended to get extra cover plates that fit your hood.(10) *Extra batteries may be needed later			
2	Welding Cap 100% cotton			
2pr.	Safety Glasses (clear) or prescription safety glasses			
12 pr.	Ear Plugs/pre-shaped foam type			
1	Stainless Steel Wire Brush			
1	Stainless Steel Tooth Brush			
1	Carbon Steel Wire Brush			
1	Chipping Slag Hammer			
1	Locking C-Clamp plier type. Vice-Grip or Economy brand.			
1	Half Round File, Bastard Cut 10" to 14"			
1	10" or 12" Adjustable Wrench (crescent or like brand)			
1	Ball Peen hammer 24 oz. or 16 oz.			
1	Pocket flashlight (MAG AAA type) extra batteries			
1	Straight screw driver 3" or 4" long			
1	Phillip screw driver 3" or 4" long			
1	Cold chisel for steel 4" or 6" long -1/2" diameter			
1	Padlock/combo or key with extra key			
1	Cape Sleeves cowhide with 20" Bib (for out position SMAW and FCAW welding)			
1	Tillman Freedom Flex Cotton Jacket with Leather Sleeves Pt. #9360 (Required Norfolk Campus)			
1	Welding and Cutting Goggles shade 4 or 5 or shaded face shield			
1	Flint Striker-extra flint			
1	Tip Cleaners			
2pr.	SMAW stick glove. Thicker cut.			
2pr.	GMAW mig glove. Medium thickness.			
2pr	GTAW tig glove. Thin cut.			
1pr.	Drivers/work glove. Medium thickness for moving and cutting metal			
1	Linesman Cutting Pliers-for cutting 1/8" TIG wire			
1	Needle Nose Pliers or Mig Welding Tool			
1	Soap Stone & Holder-flat or round with extra soap			
2	Silver-streak welders pencil			
2	4 1/2" Grinder 10 Amp with extra (6) 1/8" and (8) 1/4" grinding wheels, (4) Stringer Bead Twist Wheel Brush and (8) 60 Grit Flap Disc			
10	3/32" x 7" 2% Thoriated or 1.5 Lanthanated Tungsten			
	<b>Standard Alumina Nozzles</b>			
3	Nozzle 10N47 #7			
2	Nozzle 10N46 #8			
2	Nozzle 10N45 #10			
	<b>GTAW Parts</b>			
2	Collet 10N24 3/32			
2	Collet Body 10N32 3/32			
2	Back caps Long 57Y02			

1	Gas Lens 45V26 3/32			
1	Gas Lens Nozzle 54N14			
1	25' Measuring Tape			
1	9" Torpedo Level			
1	12" Combination Square			
1	Center Punch for metal – 1/4" or 3/8 "			
2	Sharpie black extra fine point markers			
1	5-gallon bucket			

**Please mark your name on all tools and supplies!**

**Students must also supply: Not included in estimated cost of supplies listed above.**

	*Leather Steel Toed Work Boots			
	*100% cotton Carhartt or Wrangler or other brand work shirt with flaps on pockets and recommend snaps over buttons. Khaki color. No flannel. <b>Washed</b> regularly.			
	*100% cotton tee shirt to be worn under work shirt.			
	*Normal fitting blue or black jeans. Straight leg. No holes or frays.			

NOTE: Tools need to be ordered by mid-June to guarantee delivery in August.