

Welding Fabrication 2024 Tool List

Teams bring:

Tools- tape measurer, straight edge ruler, square, angle measurer (protractor), soap stones and/or markers, flat files, round files, angle grinder(s) with various grit grinding stones & various grit sanding discs & cut off wheels , 115V extension cord (20ft) , 115V multi-connector* , adhesive tape, center punch, chipping hammer, ballpeen hammer, wire brush, hammer, **spatter scraper**, wire brush, vise grips and/or speed clamps, C-clamps, C-clamp vise grips, pliers, wire cutters or loppers, adjustable wrench that will fit regulator/flowmeter connections, and whatever else is normally used for metal fabrication. #2 Pencil for written test of welding, fabrication, and safety knowledge.

Teams or individuals bring:

PPE: safety glasses (if prescription glasses are employed then they must either have side shields, or large safety glasses/goggles worn over the prescription glasses), welding helmet w/extra cover lenses, welding gloves (gauntlet style), work gloves, grinding face shield (or appropriate welding helmet with “grinding mode”), **ear protection**, welding cap or beanie, welding jacket, proper flame retardant shirt & pants* , (no sweatshirts or hoodies!!), work shoes/boots, no loose clothing or long dangling hair.

Review national SkillsUSA list for welding, and welding attire

No Excuses for PPE, students will be dismissed from the contest if they do not have the right PPE

*115V multi-outlet adapter, or something similar



*pants: denim jeans are great but not “stressed” jeans, no frayed hem/cuffs

SkillsUSA NE will provide 3ft x 4ft welding tables and 10ft x 8ft weld booths (weld screens)

Lincoln Electric will provide 8 PowerMIG 360MP welders, filler metals, and Harris cutting torches

Chief Industries, Camaco, &Valmont Industries will provide the steel pieces and parts

Matheson will provide shielding gasses and cutting gasses .