

# Equipment List

## Welding Technology

The Welding Technology classroom should reflect the equipment and environment students would expect to find in industry. Following are the minimum equipment list for each classroom and optional suggestions. Please note: This list of recommended items does not necessarily need to be supported financially by CTE state/federal funding sources. In many cases, local school district funds are used to purchase items on a regular basis. Equipment purchased and numbers of individual items required will vary based upon student enrollment.

Anvil, 100 lbs.  
Apron, welding  
Arrestor, flashback  
Bench, work, heavy duty  
Brake, power  
Broom, floor  
Brush, dust  
Brush, wire  
Brush, stainless, tooth  
Cabinet, storage fire proof  
Caliper, slide  
Can, rag, fire proof  
Cap, hard hat  
Cape Sleeve  
Chisels, set, cold 1/4" to 3/4"  
Clamp, Chain  
Clamp, Ground  
Clamp, Vise Grip  
Clamp, Welding  
Clamps, Bar, various lengths  
Clamps, C 6" 8" 10"  
Cleaner, tip  
Computers with appropriate peripherals (including printer) and internet connections.  
    Welding Software  
    Wordprocessing software  
    Presentation software  
Compass, layout  
Compressor, air, 12 horse power, 50 gal. capacity  
Compressor, hose  
Compressor, nozzleCooler, water, GTAW  
Cord extension  
Crayon, heat (temp stick)  
Curtains, welding  
Cutter, bolt  
Cutter, pipe, hand

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### Career Preparation

Cutting attachment, circle guide  
Cutting machine, track  
Cutting torch, carbon arc  
Cutting torch oxyacetylene  
Cutting torch plasma, arc  
Cylinder, oxygen, (lease or purchase)  
Digital Camera  
Dividers, layout  
Drill, electric, 1/2", reversible/variable  
Drill, electric, 3/8", reversible/variable  
Drill set, jobber  
Drill press  
Electrodes, welding, various  
Eye wash station  
Extinguisher, fire  
Face shield  
File, card  
File, handle  
Files, flat  
Files, half round  
Files, rat tail  
First aid kit  
Flowmeter  
Flux  
Foot control, GTAW  
Glasses, safety  
Gloves, welding  
Goggles, cutting  
Goggles, welding  
Grinder, angle, 5' (4-4 1/2)  
Grinder, angle, 7"  
Grinder, belt stationary  
Grinder, die  
Grinder, tungsten electrode  
Grinder, wheels, various  
Guided bend tester  
Hammer, 3 lb.  
Hammer, ball peen  
Hammer, chipping  
Hammer, sledge  
Hammer, soft face  
Hearing protection  
Helmet, welding  
Holders, electrode  
Hose assembly, twin (oxyacetylene)  
Hose, repair kit  
Internet connectivity

Iron worker, hydraulic  
Jack, hydraulic  
Leak test kit  
Lens, cutting  
Lens, plastic or glass  
Lens, welding  
Level, magnetic  
Lighter, friction (striker)  
Manifold  
Marker, soapstone  
Meter, volt, Ohm  
Nut driver set, 3/16" to 9/16"  
Overhead projector with laptop connection  
Pinch bar  
Plasma arc machine (cutting)  
Plier, diagonal cut  
Plier, linesman  
Plier, needle nose  
Plier, slip joint  
Plier, straight nose  
Power source, DC (engine driven)  
Press, hydraulic  
Printer, based on current specifications  
Punch, drift set  
Punches, center  
Quenching tank  
Regulator, acetylene  
Regulator, oxygen  
Regulator, station (inert gas)  
Respirator  
Rod oven  
Rule, circumference  
Saw, abrasive cut-off  
Saw, band, power (stationary)  
Saw, hacksaw blades, bi-metal  
Saw, hacksaw frame  
Scaler, needle  
Scanner, based on current specifications, colored preferred  
Screwdriver set, flat  
Screwdriver set, hex/torx  
Screwdriver set, Phillips  
Scribes, metal  
Shear, hydraulic  
Shear, nibbler portable  
Shear, squaring  
Shelving, heavy duty

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**Career Preparation**

Shut off valves, manifold  
Sleeves, leather  
Snips, left angle cut  
Snips, right angle cut  
Snips, straight cut  
Socket set, 1/2" drive 1/2" to 1 1/2"  
Socket set, 1/2" drive metric 10 mm to 36 mm  
Socket set 3/8" drive, 3/8" to 3/4"  
Socket set, 3/8" drive metric 1 mm to 19 mm  
Square, bevel  
Square, combination  
Square, framing  
Square, magnetic  
Stands, pipe  
Storage, cabinet, locking  
Table, fabrication  
Table, gas cutting  
Tap & die set, #6 thru 3/4 NC AND NF  
Tape, measure 25'  
Tip, cutting, welder GMAW, welder FCAW, welder GTAW  
Tip drill  
Tip-nipper  
Tip, scarfing, welder GMAW, welder FCAW, welder, GTAW  
Tip, welding and heating  
Tongs, pickup  
Tool cart  
Torch, oxyacetylene  
Torch, Tig, water cooled  
Vacuum, wet/dry  
VCR with television monitor  
Vise, bench type  
Welding inspection gauges  
Welding machine, FCAW/CV  
Welding machine, GMAW  
Welding machine, GTAW  
Welding machine, SMAW  
Wire, FCAW  
Wire feeders  
Wire, GMAW  
Wrench adjustable  
Wrench, allen set, metric and English  
Wrench, cylinder  
Wrench, pipe  
Wrench, set, combination, 3/8" thru 1 1/4"  
Wrench, set, combination, metric, 4 mm thru 27 mm