

WELDING, CUTTING, AND BRAZING SAFETY CHECKLIST

Date	
Location	
Completed by	

OK = Satisfactory | AN = Action Needed | N/A = Not Applicable **OK** **AN** **N/A**

1	Only trained, authorized, and competent workers are permitted to use welding, cutting, and brazing equipment. [1910.252(a)(2)(xiii)(C)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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FIRE PREVENTION AND PROTECTION

2	When the object to be welded cannot be moved and fire hazards cannot be removed, shields are used to confine heat, sparks, and slag. [1910.252(a)(1)(ii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Suitable fire extinguishing equipment is available for immediate use. [1910.252(a)(2)(ii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Fire watchers are assigned when welding or cutting is performed in locations where a fire might develop. [1910.252(a)(2)(iii)(A)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Combustibles are located at least 35 feet away from the work site or effectively shielded. [1910.252(a)(2)(vii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PERSONNEL PROTECTION

6	Welders on elevated work areas are protected from falling. [1910.252(b)(1)(i)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Welding cables and equipment do not obstruct passageways, ladders, or stairways. [1910.252(b)(1)(ii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	A hazard assessment has been completed to determine what specific PPE is required. [1910.132(d)(1)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Personal protective equipment (PPE), including eye protection, is appropriate for the work being performed and worn when required. [1910.252(b)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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10	Adequate ventilation is provided in areas where welding or cutting is performed. [1910.252(c)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	Gas cylinders and welding machines are left outside when welding or cutting is being performed in any confined space. [1910.252(b)(4)(iii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OXYGEN-FUEL GAS WELDING AND CUTTING				
12	Precautions are taken to prevent the mixture of air or oxygen with flammable gases, except at a burner or in a standard torch. [1910.253(a)(1)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	Acetylene is generated, piped, or utilized at a pressure of 30 p.s.i. absolute pressure or less. [1910.253(a)(2)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	Only approved apparatuses (torches, regulators, pressure reducing valves, acetylene generators, manifolds, etc.) are used. [1910.253(a)(3)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	The gas content of compressed gas cylinders is marked with either the chemical or the trade name of the gas. [1910.253(b)(1)(ii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	Cylinders are stored away from radiators and other sources of heat. [1910.253(b)(2)(i)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	Cylinders that are stored inside have a designated storage area that is located in a well-protected, well-ventilated, dry location that is at least 20 feet from highly combustible materials and away from elevators, stairs, or gangways. [1910.253(b)(2)(ii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	The cylinder storage space is located where cylinders will not be knocked over or damaged by passing or falling objects, or subject to tampering by unauthorized persons. [1910.253(b)(2)(ii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	The valves of empty cylinders are kept closed. [1910.253(b)(2)(iii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	Valve protection caps are always in place and hand-tight, except when in use or connected for use. [1910.253(b)(2)(iv)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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21	Inside a building, cylinders (except for those in actual use, or attached ready for use) are limited to a total gas capacity of 2,000 cubic feet or 300 pounds of liquified petroleum gas. [1910.253(b)(3)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	Acetylene cylinders are stored valve end up. [1910.253(b)(3)(ii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23	Oxygen cylinders are not stored near highly combustible material (especially oil and grease); near reserve stocks of carbide, acetylene, or other fuel gas cylinders; near any other substance likely to cause or accelerate fire; or in an acetylene generator compartment. [1910.253(b)(4)(i)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	Fuel gas cylinders and oxygen cylinders in storage are separated by a distance of at least 20 feet, or by a non-combustible barrier at least 5 feet high, having a fire-resistance rating of at least 30 minutes. [1910.253(b)(4)(iii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25	Cylinders, cylinder valves, couplings, regulators, hoses, and apparatuses are kept free of oily or greasy substances. [1910.253(b)(5)(i)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	Cylinders are never dropped, struck, or permitted to strike each other with force. [1910.253(b)(5)(ii)(B)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27	Valve-protection caps are never used for lifting cylinders from one vertical position to another. [1910.253(b)(5)(ii)(C)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28	Regulators are removed and valve-protection caps put in place before moving cylinders unless they are secured on special trucks. [1910.253(b)(5)(ii)(D)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29	Cylinders without fixed hand wheels have keys, handles, or nonadjustable wrenches on the valve stems while the cylinders are in service. <i>In multiple cylinder installations, only one key or handle is required for each manifold.</i> [1910.253(b)(5)(ii)(E)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30	Cylinder valves are closed when work is finished, and before moving any cylinder. [1910.253(b)(5)(ii)(F-G)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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31	Cylinders are kept far enough away from the welding or cutting operation so that sparks, hot slag, or flame will not reach them, or fire-resistant shields are provided. [1910.253(b)(5)(ii)(I)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32	Whether full or empty, cylinders are never used as rollers or supports. [1910.253(b)(5)(ii)(K)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33	Only proper tools are used to open cylinder valves (never a hammer or a wrench). [1910.253(b)(5)(ii)(Q)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34	When in use, fuel gas cylinders are placed with the valve end up. [1910.253(b)(5)(iii)(A)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35	Workers are trained to never crack open a fuel gas cylinder valve near sources of ignition. [1910.253(b)(5)(iii)(C)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36	Before a regulator is removed, the valve is closed, and gas is released from the regulator. [1910.253(b)(5)(iii)(D)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37	Cylinders with leaky valves or fittings are taken outdoors, away from ignition sources, and slowly emptied. [1910.253(b)(5)(iii)(F)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38	Warning signs are posted that prohibit open flame or ignition sources near cylinders with leaking fuse plugs (or other leaking safety devices) and the cylinders are tagged. [1910.253(b)(5)(iii)(G)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39	Cylinder manifolds have been installed under the supervision of someone familiar with the proper practices with reference to their construction and use. [1910.253(c)(5)(i)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40	When acetylene cylinders are coupled, approved flash arresters have been installed between each cylinder and the coupler block. [1910.253(c)(5)(iii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41	The aggregate capacity of fuel-gas cylinders connected to a portable manifold inside a building does not exceed 3,000 cubic feet of gas. [1910.253(c)(5)(iv)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42	Acetylene and liquefied fuel-gas cylinders are manifolded in a vertical position. [1910.253(c)(5)(v)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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43	In service piping systems, the distribution lines have been installed and are maintained in a safe operating condition. [1910.253(d)(3)(i)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44	Emergency gas cocks or valves are provided for all buildings. [1910.253(d)(3)(v)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45	Underground and outdoor pipe and tubing is protected against corrosion. [1910.253(d)(4)(i)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
46	Flashback protection is provided by an approved device that will prevent flame from passing into fuel-gas systems. [1910.253(e)(3)(ii)(C)(3)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
47	Hoses showing defects are repaired or replaced. [1910.253(e)(5)(v)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48	Pressure-reducing regulators are only used for the gas and pressures for which they are intended. [1910.253(e)(6)(i)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
49	Gauges on oxygen regulators are marked "USE NO OIL". [1910.253(e)(6)(iii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ACETYLENE GENERATORS				
50	Ample space is provided around the generator for operation and maintenance. [1910.253(f)(3)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
51	The generator is located in an area where water will not freeze and the use of sodium chloride to prevent freezing is prohibited. [1910.253(f)(4)(i)(B)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
52	Portable generators are placed at a safe distance away from the welding position. [1910.253(f)(5)(ii)(E)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
53	No opening in any outside generator house is located within 5 feet of any opening in another building. [1910.253(f)(6)(i)(A)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
54	Stationary generators installed inside buildings are enclosed in a separate room. [1910.253(f)(6)(i)(G)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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55	Inside generator rooms and outside generator houses are well ventilated with vents located at floor and ceiling levels. [1910.253(f)(6)(ii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
56	Unauthorized persons are not permitted in outside generator houses or inside generator rooms. [1910.253(f)(7)(i)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
57	Operating instructions are posted in an obvious location near the generator or kept in a suitable known place available for ready reference. [1910.253(f)(7)(i)(A)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
58	The generator room is electrically wired as a hazardous location. [1910.307]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
59	The water-carbide residue mixture that is drained from the generator is never discharged into sewer pipes or stored in areas near open flames. [1910.253(f)(7)(i)(D)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
60	Calcium carbide is kept in metal packages that are strong enough to prevent rupture and are labeled with "Calcium Carbide – Dangerous if Not Kept Dry" (or an equivalent warning). [1910.253(g)(1)(ii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
61	Calcium carbide stored indoors does not exceed 600 pounds and the storage area is dry, waterproof, and well-ventilated. [1910.253(g)(2)(i)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
62	Calcium carbide containers stored outdoors are periodically inspected for rusting or other damage. [1910.253(g)(3)(ii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ARC WELDING AND CUTTING				
63	Open circuit (no-load) voltage of arc welding and cutting machines is as low as possible and not in excess of the recommended limits. [1910.254(b)(3)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
64	Under wet conditions, automatic controls for reducing no-load voltage are used. [1910.254(b)(4)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
65	On arc welding machines the control apparatus is enclosed. [1910.254(b)(4)(ii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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66	Terminals for welding leads are protected from accidental electrical contact by personnel or metal objects. [1910.254(b)(4)(iv)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
67	Connections for portable control devices, such as push buttons carried by the operator, are not connected to an A.C. circuit higher than 120 volts. [1910.254(b)(4)(v)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
68	There is a disconnecting switch or controller at or near each welding machine. [1910.254(c)(3)(i)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
69	Grounding of the welding machine frame has been checked. [1910.254(d)(3)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70	When electrode holders are not in use, they are placed in a way so that they cannot make electrical contact with persons, conducting objects, fuel, or compressed tanks. [1910.254(d)(7)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
71	Welders do not coil or loop welding electrode cables around their bodies. [1910.254(d)(8)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
72	Arc-welding cables are intact with no damaged insulation or exposed conductors. [1910.254(d)(9)(iii)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RESISTANCE WELDING				
73	Doors and access panels of resistance welding machines and control panels are kept locked and interlocked to prevent access by unauthorized persons. [1910.255(b)(3)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
74	Press welding machine operations are effectively guarded. [1910.255(b)(4)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
75	A shield guard of safety glass (or suitable fire-resistant plastic) has been installed at the point of operation. [1910.255(b)(5)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
76	Foot switches are guarded to prevent accident operation of the machine. [1910.255(b)(6)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
77	Two or more safety emergency stop buttons are provided on all special multi-sport welding machines, including 2-post and 4-post weld presses. [1910.255(b)(7)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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78	Arc flash welding machines are equipped with hoods to control flying flash. [1910.255(d)(1)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
79	Periodic inspections of flash welding machines are completed by qualified personnel and inspection records are maintained. [1910.255(e)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Action Needed Items and Additional Notes:

This checklist provides general safety guidelines and does not include all elements of OSHA Standard 1910 Subpart Q for Welding, Cutting, and Brazing.

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