

The following checklist is a guide. It may be used in its entirety or be modified to the specific user's needs by adding or subtracting items from the checklist. For questions concerning any item, contact the Office of Environmental Health and Safety.

(45) WELDING, CUTTING & BRAZING

Name: _____ Date : _____

Location of Inspection: _____

1. Are only authorized and trained personnel permitted to use welding, cutting or brazing equipment?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
2. Do all operators have a copy of the appropriate operating instructions and are they directed to follow them?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
3. Are compressed gas cylinders regularly examined for obvious signs of defects, deep rusting, or leakage?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____ _____
4. Is care used in handling and storage of cylinders, safety valves, relief valves, and the like, to prevent damage?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
5. Are precautions taken to prevent the mixture of air or oxygen with flammable gases, except at a burner or in a standard torch?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
6. Are only approved apparatus (torches, regulators, pressure-reducing valves, acetylene generators, manifolds) used?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
7. Are cylinders kept away from sources of heat?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____

8. Is it prohibited to use cylinders as rollers or supports?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
9. Are empty cylinders appropriately marked, their valves closed, and valve-protection caps on?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
10. Are signs reading: DANGER NO-SMOKING, MATCHES, OR OPEN LIGHTS, or the equivalent, posted?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
11. Are cylinders, cylinder valves, couplings, regulators, hoses, and apparatus kept free of oily or greasy substances?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
12. Is care taken not to drop or strike cylinders?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
13. Unless secured on special trucks, are regulators removed and valve-protection caps put in place before moving cylinders?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
14. Do cylinders without fixed hand wheels have keys, handles, or non-adjustable wrenches on stem valves when in service?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
15. Are liquefied gases stored and shipped valve-end up with valve covers in place?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
16. Are employees instructed to never crack a fuel-gas cylinder valve near sources of ignition?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
17. Before a regulator is removed, is the valve closed and gas released from the regulator?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____

18. Is red used to identify the acetylene (and other fuel-gas) hose, green for oxygen hose, and black for inert gas and air hose?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
19. Are pressure-reducing regulators used only for the gas and pressures for which they are intended?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
20. Is open circuit (No Load) voltage of arc welding and cutting machines as low as possible and not in excess of the recommended limits?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
21. Under wet conditions, are automatic controls for reducing no-load voltage used?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
22. Is grounding of the machine frame and safety ground connections of portable machines checked periodically?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
23. Are electrodes removed from the holders when not in use?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
24. Is it required that electric power to the welder be shut off when no one is in attendance?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
25. Is suitable fire extinguishing equipment available for immediate use?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
26. Is the welder forbidden to coil or loop welding electrode cable around his body?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
27. Are wet machines thoroughly dried and tested before being used?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____

28. Are work and electrode lead cables frequently inspected for wear and damage, and replaced when needed?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
29. Do means for connecting cable lengths have adequate insulation?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
30. When the object to be welded cannot be moved and fire hazards cannot be removed, are shields used to confine heat, sparks, and slag?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
31. Are firewatchers assigned when welding or cutting is performed, in locations where a serious fire might develop?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
32. Are combustible floors kept wet, covered by damp sand, or protected by fire-resistant shields?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
33. When floors are wet down, are personnel protected from possible electrical shock?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
34. When welding is done on metal walls, are precautions taken to protect combustibles on the other side?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
35. Before hot work is begun, are used drums, barrels, tanks, and other containers so thoroughly cleaned that no substances remain that could explode, ignite or produce toxic vapors?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____
36. When working in confined places are environmental monitoring tests taken and means provided for quick removal of welders in case of emergency?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Comments: _____ _____