

SAFETY COMPLIANCE CHECKLIST

Welding Operations		
General		29 CFR 1910
	Hot work permit (MSFC 1155) completed and approved? Contact Industrial Safety Office.	
	Mechanical ventilation is required if space is less than 10,000 cubic feet per welder, rooms having a ceiling height less than 16 feet, confined spaces where cross ventilation is significantly obstructed?	
	Welding materials requiring ventilation or air-line respirators: cadmium, fluorides, zinc, lead, beryllium, mercury, stainless steel (oxygen cutting using chemical flux or iron powder or gas shielded arc).	
	Materials to be welded is not known?	
House-keeping		
	Are aisles marked?	.22
	Width of aisles maintained?	.22
	Are aisles in good condition?	.22
	Are work areas clean?	.22
	Is housekeeping maintained?	.22
	Are only authorized and trained personnel permitted to use welding, cutting, or brazing equipment?	
	Does each operator have a copy of the appropriate operating instructions and are they directed to follow them?	
	Are compressed gas cylinders regularly examined for obvious signs of defects, deep rusting, or leakage?	.23(5)(ii)
	Is care used in handling and storage of cylinders, safety valves, relief valves, etc., to prevent damage?	.23(d)(i)
	Are precautions taken to prevent the mixture of air or oxygen with flammable gases, except at a burner or in a standard torch?	.253(a)
	Are cylinders kept away from sources of heat?	.252
	Are signs reading "Danger - No Smoking, Matches, or Openlights" or the equivalent, posted?	.252
	Are liquefied gases stored and shipped valve-end up with valve covers in place?	
	Are provisions made to never crack a fuel-gas cylinder valve near sources of ignition?	

Welding Operations (continued)

	Before a regulator is removed, is the valve closed and gas released from the regulator?	
	Is red used to identify the acetylene (and other fuel-gas) hose, green for oxygen hose, and black for inert gas and air hose?	
	Are pressure-reducing regulators used only for the gas and pressures for which they are intended?	
	Acetylene not used at pressures above 15 psig?	
	Special T-wrench for opening cylinders in place during welding operations?	
	Is welding to be performed on cryogenic piping?	
	Is open circuit (No Load) voltage of arc welding and cutting machines as low as possible and not in excess of the recommended limits?	
	Under wet conditions, are automatic controls for reducing no load voltage used?	
	Is grounding of the machine frame and safety ground connections of portable machines checked prior to starting machine?	
	Are only approved apparatus (torches, regulators, pressure-reducing valves, acetylene generators, manifolds) used?	
	Are the cylinders kept away from elevators, stairs, or gangways?	
	Is it prohibited to use cylinders as rollers or supports?	
	Are empty cylinders appropriately marked and their valves closed?	
	When welding is done on metal walls, are precautions taken to protect combustibles on the other side?	
	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?	
	If welding is to be conducted in an area containing compressed gas containers and flammable or explosive materials; has the Safety Office been notified and approval received?	
	Is a check made for adequate ventilation in and where welding or cutting is performed?	
	When working in confined places, are environmental monitoring tests taken? A confined space entry permit approved?	
	Welding/cutting near metal scrap bins?	
	Are the bins marked with type of material?	
Personal Protective Equipment		
	Are protective goggles or face shields provided and worn where there is any danger of flying particles or corrosive materials?	.133

Welding Operations (continued)

	Are helpers or observers wearing proper eye protection to prevent flash burns?	
	Are approved safety glasses required to be worn at all times in areas where there is a risk of eye injuries such as punctures, abrasions, contusions, or burns?	.133
	Are protective gloves, aprons, shields, or other means approved against cuts, corrosive liquids, and chemicals?	.132
	Are employees who need corrective lenses (glasses or contacts) in working environments having harmful exposures required to wear only approved glasses, protective goggles, or use other medically approved precautionary procedures?	.133(a)(3)
	Is it required that eye protection helmets, hand shields, and goggles meet appropriate standards?	
	Are employees exposed to the hazards created by welding cutting, or brazing operations protected with personal protective equipment and clothing?	
	Are hard hats provided and worn where danger of falling objects exists?	.135
	Are hard hats inspected periodically for damage to the shell and suspension system?	.135
	Is appropriate foot protection required where there is the risk of foot injuries?	.135
Air Emissions		
	If the welding creates hazardous air emissions, is the welding area appropriately marked to indicate this?	.1200(f)
Fire Protection		
	Are all fire extinguishers accessible, and their locations clearly designed?	.157
	Are all fire extinguishers inspected and recharged regularly, and noted on the inspection tag?	.157
	Is the emergency number 544-4357 (4-HELP) or 911 on a MSFC network phone displayed?	
	Have Safety Office Fire Protection Specialists been contacted (544-0046) ?	