

	WELDING & CUTTING SAFETY INSPECTION CHECKLIST	Document No.:	HSE-BF-022
		Department:	Operations
		Revision Date:	24 AUG 2010
Release authorized by:	D. Slattery	Page	Page 1 of 4

Locations: _____ **Date:** _____

Inspector(s): _____


Yes	No	Inspection Item
		1. Are only authorized and trained personnel permitted to use welding, cutting or brazing equipment?
		2. Does each operator have a copy of the appropriate operating instructions and are they directed to follow them?
		3. Are pressure-reducing regulators used only for the gas and pressures for which they are intended?
		4. Are pressure-reducing regulators used only for the gas and pressures for which they are intended?
		5. Are only approved apparatus (torches, regulators, pressure-reducing valves, acetylene generators, manifolds) used?
		6. Is a check made for adequate ventilation in and where welding or cutting is performed?
		7. Is a check made for adequate ventilation in and where welding or cutting is performed?
Yes	No	Welding Equipment
		1. Is necessary personal protective equipment available?
		2. Are only approved apparatus (torches, regulators, pressure-reducing valves, acetylene generators, manifolds) used?
		3. Is open circuit (No Load) voltage of arc welding and cutting machines as low as possible and not in excess of the recommended limits?
		4. Is grounding of the welding machine frame and safety ground connections of portable machines checked periodically?
Yes	No	Equipment Markings
		1. Is red used to identify acetylene (and other fuel-gas) hose, green for oxygen hose, and black for inert gas and air hose?
		2. Are empty compressed gas cylinders appropriately marked and their valves closed?
Yes	No	Compressed Gas Cylinder Management
		1. Are compressed gas cylinders regularly examined for obvious signs of defects, deep rusting, or leakage?
		2. Is care used in handling and storage of cylinders, safety valves, relief valves, etc., to prevent damage?
		3. Are liquefied gases stored and shipped valve-end up with valve

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		covers in place?
		4. Before a regulator is removed, is the valve closed and gas released from the regulator?
		5. Are cylinders, cylinder valves, couplings, regulators, hoses, and apparatus kept free of oily or greasy substances?
		6. Are the cylinders kept away from elevators, stairs, or gangways?
		7. Is it prohibited to use cylinders as rollers or supports?
		8. Is care taken not to drop or strike cylinders?
		9. Unless secured on special trucks, are regulators removed and valve-protection caps put in place before moving cylinders?
		10. Unless secured on special trucks, are regulators removed and valve-protection caps put in place before moving cylinders?
		11. Do cylinders without fixed hand wheels have keys, handles, or non-adjustable wrenches on stem valves when in service?
		12. Are empty compressed gas cylinders appropriately marked and their valves closed?
		13. Are fuel gas cylinders and oxygen cylinders separated by distance, fire resistant barriers, etc., while in storage?
Yes	No	Personal Protective Equipment
		1. Are all employees required to use personal protective equipment (PPE) as needed?
		2. Is PPE functional and in good repair? Does it have ANSI or ASTM specifications marked on it?
		3. Are employees exposed to the hazards created by welding, cutting, or brazing operations protected with personal protective equipment and clothing?
		4. Is personal protective equipment provided and are all employees required to use PPE as needed to protect against eye and face injury?
		5. Are protective goggles or face shields provided and worn where there is any danger of flying particles or corrosive materials?
		6. 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?
		7. Are appropriate safety glasses, face shields, etc., used while using hand tools or equipment which might produce flying materials or be subject to breakage?
		8. Are employees who need corrective lenses (glasses or contacts) in working environments having harmful exposures required to wear only approved safety glasses, protective goggles, or use other medically approved precautionary procedures?
		9. Is appropriate foot protection required where there is the risk of foot injury?

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		10. Is appropriate hand protection required where there is the risk of hand injury?
		11. Are hard hats provided and worn where danger of falling objects exists?
		12. Are hard hats inspected periodically for damage to the shell and suspension system?
Yes	No	Air Emissions
		1. If welding creates hazardous air emissions, is the welding area appropriately marked to indicate this?
		2. If welding creates hazardous air emissions, have ventilation or local exhaust systems been provided to keep fumes below the maximum allowable concentrations?
Yes	No	Fire Prevention
		1. Are precautions taken to prevent the mixture of air or oxygen with flammable gases, except at a burner or in a standard torch?
		2. Are signs reading DANGER NO SMOKING, MATCHES, OR OPEN LIGHTS or the equivalent, posted in welding areas?
		3. Are provisions made to never crack a fuel-gas cylinder valve near sources of ignition?
		4. Are provisions made to never crack a fuel-gas cylinder valve near sources of ignition?
		5. When welding is done on metal walls, are precautions taken to protect combustibles on the other side?
		6. 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?
		7. If welding gases are stored, are oxygen and acetylene separated by a 5-foot noncombustible barrier?
		8. If welding gases are stored, are oxygen and acetylene separated by a 5-foot noncombustible barrier?
		9. Are compressed gas cylinders kept away from sources of heat?
		10. Is combustible scrap, debris, and waste stored safely and removed from the work site promptly?
		11. Are fire watchers assigned when welding or cutting is performed in locations where a serious fire might develop?
		12. Are provisions made for personnel to perform fire watch duties under appropriate circumstances?
Yes	No	Fire Alarm Systems
		1. If you have a non-supervised fire alarm system, is it tested bimonthly?
		2. If you have a supervised employee alarm system (that is, does the alarm have a device that indicates system malfunction), is it tested

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		yearly?
Yes	No	Portable Fire Extinguishers
		1. Are appropriate fire extinguishers mounted, located, and identified so that they are readily accessible to employees?
		2. Are all fire extinguishers inspected and recharged regularly, and noted on the inspection tag?
		3. Are portable fire extinguishers provided in adequate number and type?
Yes	No	Aisles
		1. Are aisles marked?
		2. Are aisle widths maintained?
		3. Are aisles in good condition?
		4. Are aisles and passageways properly illuminated?
		5. Are aisles kept clean and free of obstructions?

Comments: