

U.S. Department of Labor
Mine Safety and Health Administration
Educational Field and Small Mines Services



Location _____ Date _____

Competent Person _____ Duration _____ Time _____

Welding Regulations

1) [56.4600](#) Extinguishing equipment.

(a) When welding, cutting, soldering, thawing, or bending-

(1) With an electric arc or with an open flame where an electrically conductive extinguishing agent could create an electrical hazard, a multipurpose dry-chemical fire extinguisher or other extinguisher with at least a 2-A:10-B:C rating shall be at the worksite.

(2) With an open flame in an area where no electrical hazard exists, a multipurpose dry-chemical fire extinguisher or equivalent fire extinguishing equipment for the class of fire hazard present shall be at the worksite.

(b) Use of halogenated fire extinguishing agents to meet the requirements of this standard shall be limited to Halon 1211 (CBrClF₂) and Halon 1301 (CBrF₃). When these agents are used in confined or unventilated areas, precautions based on the manufacturer's use instructions shall be taken so that

the gases produced by thermal decomposition of the agents are not inhaled.

2) [56.4601](#) Oxygen cylinder storage.

Oxygen cylinders shall not be stored in rooms or areas used or designated for storage of flammable or combustible liquids, including grease.

3) [56.4602](#) Gauges and regulators.

Gauges and regulators used with oxygen or acetylene cylinders shall be kept clean and free of oil and grease.

4) [56.4603](#) Closure of valves.

To prevent accidental release of gases from hoses and torches attached to oxygen and acetylene cylinders or to manifold systems, cylinder or manifold system valves shall be closed when –

(a) The cylinders are moved; (b) The torch and hoses are left unattended; or (c) The task or series of tasks is completed.

5) [56.4604](#) Preparation of pipelines or containers.

Before welding, cutting, or applying heat with an open flame to pipelines or containers that have contained flammable or combustible liquids, flammable gases, or explosive solids, the pipelines or containers shall be – (a) Drained, ventilated, and thoroughly cleaned of any residue; (b) Vented to prevent pressure buildup during the application of heat; and (c)(1) Filled with an inert gas or water, where compatible; or (2) Determined to be free of flammable gases by a flammable gas detection device prior to and at frequent intervals during the application of heat.

Always Remember Personnel Protective Equipment for the Task

- **Fatal grams:** [56.4600](#), [56.4604](#),

- **Attendees:**