



## Definitions

### EHSS-Phos Program – Hot Work (Welding and Cutting), Appendix A

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The following table defines key terms used in the **EHSS-Phos** Hot Work (Welding and Cutting) program:

Term	Definition
Approved	Means listed or approved by a nationally recognized testing laboratory or regulating agency.
Combustible Material	Any material that may ignite when introduced to an ignition source (e.g., wood, paper, cardboard and plastic).
Competent Worker	A person who can demonstrate sufficient professional or technical training, knowledge, actual experience and authority to perform his or her duties at the level of responsibility allocated to him or her, understand any potential hazards related to the work or equipment and detect any technical defects or omissions in the work or equipment, recognize any implications for health and safety caused by those defects or omissions and specify a remediating action to mitigate those implications.
Confined Space	Any space that has limited or restricted access, is enterable with the whole body, and is not designed for continuous human occupancy. Confined Spaces include, but are not limited to: storage tanks, covered rail cars, tank cars and trucks, reactors, dryers, kilns, granulators, receivers, process vessels, bins, silos, hoppers, boilers, manholes, pipelines, dragline tub compartments, etc.
Elevated Hot Work	Any hot work performed that could result in sparks, embers, or residue that could ignite flammable or combustible materials at a level below the work.
Flammable Gas	All combustible and flammable gases and vapors that burn in the air when the gas or vapor concentration is within the range of concentration of possible combustion.
High-Risk Hot Work	An area of a facility in which hot work can be conducted with a hot work permit but additional required precautions may be necessary given the increased level of fire or explosion risk.



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Term	Definition
Hot Work	Hot work is any temporary or permanent operation involving open flames or producing heat and/or sparks that could provide an ignition source. This includes but is not limited to: brazing, cutting, grinding, soldering, torch applied roofing, and welding. The definition of hot work can be applied to activities within a facility such as periodic/planned maintenance activities, new construction work and emergency repairs.
Hot Work Designated Area	An area of a facility in which hot work can be conducted without a hot work permit if combustible, ignitable, or flammable materials remain controlled or safeguarded.
Hot Work 35 Foot Rule	The radius of the work area to be inspected and protected prior to hot work activities or from which combustible or flammable materials shall be relocated or protected. Also includes appreciable combustibles that are easily ignited by sparks that are more than 35 feet away such as gasoline, LP gas, paper packing materials, etc.
Intermittent Monitoring	An extended fire watch period in which a periodic patrol shall take place at a minimum of every 15 mins.
Lower Explosive Limit (LEL)	The minimum concentration of a flammable gas that will propagate a flame in the presence of an ignition source. The more explosive the gas, the lower the LEL. LEL is usually expressed as a percentage (from zero to 100 percent explosive) and is often used interchangeably with lower flammability limit (LFL).
Safe Work Permit	An approved permit utilized to identify and eliminate potential hazards during job preparation, and to authorize the work.
Welder and welding operator	Any operator of electric or gas welding and cutting equipment.