

Environmental Health and Safety

Hotwork and Welding Checklist

Procedures

Welding and other hotwork should be performed in designated maintenance areas where appropriate controls are present whenever possible.

Conditions should allow all items on this list to be checked Yes before welding or other hotwork operations are permitted to proceed.

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|-------------------------------------|------------------------------------|--|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Welders, assistants, and observers have been supplied with and instructed to wear appropriate eye, face, hearing, and hand protection. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Welders and other persons in the work area will wear clothing that protects all parts of the body from burns and damage associated with the ultraviolet radiation produced. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | If welding is performed overhead welders will wear leather caps or helmets and shoulder covers. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Welders will wear boots or similar substantial foot gear that completely cover the feet and ankles with pant cuffs worn on the outside. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | If work will be done on an elevated surface, an effective means of fall protection is provided. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | If work must be performed under wet/damp conditions, mats, platforms or other means are provided that effectively insulate workers from shock hazards. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Workers have been provided and have reviewed appropriate Safety Data Sheets for all potentially hazardous materials that will be used. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | If compressed gas cylinders are present, they are secured in an upright position and caps are in place when not in use. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Mechanical ventilation is provided to pull welding fumes away from the welder and discharge exhaust fumes safely where welding must be performed in an area where natural ventilation is not sufficient to maintain a safe atmosphere. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | If hotwork will be performed in a confined space, continuous air monitoring will be performed and documented as required by the university's confined space standard. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | If hotwork will be performed in a confined space, compressed gas cylinders will remain outside and torches will be removed from the space when not in use. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Appropriate respirators are provided and will be used if natural or mechanical ventilation is not sufficient for maintaining a safe atmosphere. (NOTE: Welding or cutting operations that involve materials containing fluorine compounds, stainless steel, zinc, lead, beryllium, cadmium, and mercury are especially hazardous and may require the use of <u>both</u> local ventilation and respiratory equipment to ensure adequate protection) |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Gas welding hoses are equipped with flashback arrestors. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Noncombustible or flameproof flash screens are placed as needed to protect other personnel from flash and sparks. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Screens are positioned approximately 2 feet above the floor to allow for maximum ventilation (unless work must be performed at so low a level that they must be extended to the floor to provide protection). |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | The person(s) who will be performing hotwork are properly trained and qualified. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Sprinklers in the area where the hotwork will be performed are operational. |



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- Yes** **No** If smoke detectors are present and must be covered or deactivated to prevent false alarms, Environmental Health and Safety has been notified.
- Yes** **No** Cutting and welding equipment is in good repair.
- Yes** **No** Ducts and conveyor systems (that might carry sparks to distant combustibles) are suitably protected or shutdown.
- Yes** **No** Floors have been swept and cleared of all combustibles within 35 feet of hotwork (if possible).
- Yes** **No** Combustible floor or wall surfaces within 35 feet of hotwork are wet down or protected with damp sand, metal or other safety shields.
- Yes** **No** There are no unprotected combustible materials or flammable liquids in the hotwork area.
- Yes** **No** All combustibles that are likely to be ignited by conduction or radiation are moved away from the opposite side of partitions, walls, ceilings or roofs.
- Yes** **No** All wall and floor openings are covered.
- Yes** **No** Covers that need to be suspended beneath the work to collect sparks are installed.
- Yes** **No** All combustibles are cleaned and removed from equipment near the hotwork area.
- Yes** **No** Containers on which hotwork will be performed are purged of all flammable vapors.
- Yes** **No** Provisions have been made to provide a fire watch during hotwork operations and for at least 60 minutes after the work is completed.
- Yes** **No** The fire watch is supplied with suitable fire extinguisher and other appropriate fire-suppression materials.
- Yes** **No** The fire watch is trained in the proper use of suppression equipment and how to sound the alarm if necessary.
- Yes** **No** Adjoining areas, above and below, have been checked for the necessity of fire watch.
- Yes** **No** An approved first aid kit is readily available.
- Yes** **No** A phone with emergency numbers posted nearby is available and accessible.

OTHER: _____

Checklist Completed by: _____ *Date:* _____

Print: _____

Signature: _____

