|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site: |  | | | | | | | **Contract Number:** | |  | |
| **Assessed by:** | **Name:** |  | | **Position:** |  | | | | **Date:** |  | |
| **Signed:** |  | | |  | | | | | | |
| **Description Of Work:** | Oxy-propane cutting | | | | | | | | | | |
| **Task / Job Component** | Hazard | | **Persons at risk** | | | **Risk Rating L/M/H** | **Controls / Precautions to Reduce Risk** | | | | **Residual Risk Rating**  **L/M/H** |
| Oxy-propane cutting | Manual handling. | | Operatives, other workers | | | **H** | Training in safe manual handling techniques of oxy-propane, trolleys to be used were practicable  * Provide clear access routes to work areas. * Provide mechanical handling, i.e. forklift or crane welding equipment onto floor levels or scaffolds. * Provide sack trucks or assistance for moving equipment and materials. * Use smallest bottle size suitable. | | | | **L** |
|  | Confined spaces. | | Operatives, other workers, visitors, general public. | | | **H** | Special safe system of work with permit to enter system (e.g. box girders).  * If working in confined spaces or welding in areas with reduced airflow then additional controls such as forced ventilation and confined space training will be required. * Significant risk of explosion and oxygen enriched environments must be assessed for confined space work. | | | | **L** |
|  | Radiation. | | Operatives, other workers, visitors, general public. | | | **H** | Radiation welding shield with filter.  * Flame-retardant overalls (i.e. non synthetic). * Welding curtains or screens or signs and fences to reduce the risk of arc eye. * Safety awareness training on welding style being adopted. | | | | **L** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Oxy-propane cutting | Fall of material/fall from height. | Operatives, other workers, visitors, general public. | **H** | Scaffolding or MEWP for safe access  * All scaffolds, edge protection and MEWP must be inspected prior to use or operation. * In date Scaff tags to be displayed on scaffolds. * MEWP operators must have IPAF training. * Establish and enforce exclusion zones and display signs | **L** |
| Oxy-propane cutting | Dust/fume/gases risk of respiratory diseases (welders lung, asthma etc) | Operatives and other workers in immediate vicinity | **H** | Awareness of the risk associated with the material to be cut (COSHH assessment).  * Toxic fume hazards such as Nitrogen Oxide, Ozone, Phosgene, Carbon Monoxide may need consideration in the COSHH assessment * Work in the open air when possible. * Remove harmful coatings before cutting. * Consider health surveillance and respiratory assessments * Provide portable local exhaust ventilation or on gun extraction if in confined areas. * Provide good welfare soap, nailbrushes, warm water, towels and rest room. * Provide suitable welding respirator (FFP3S) or air fed visor and helmet. * Prohibit eating drinking or smoking in the work area. * No worker to be under 18 or pregnant employee. | **L** |
|  | Fire/explosion/burn injuries. | Welders, other workers, visitors, general public. | **H** | Safe storage of gas – secured from falling in the vertical plane in a well ventilated area.  * Locked against unauthorised use. * Operation of a hot works permit, this will normally include the need for a second person on fire watch. * Move or cover flammable materials including hidden wall linings. * Ventilate voids that could contain gases. * Gas monitoring. * Gas equipment to include non return valves and flashback arrestors and valves that are maintained. * Remove bottles at night. * Awareness of the risks associated with flashback. * Provision of and training related to fire extinguishers and means of raising the alarm. * Warning signs and contact with the fire brigade * Stop work at least 30 minutes before leaving work area to permit fire and smouldering check. | **L** |
|  | Noise. | Operatives, other workers, visitors, general public. | **M** | Provide advice and hearing protection if necessary, only a hazard if working in noisy environment above 85dB(A) | **L** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Site-specific Activities** | **Additional Site–specific Hazards** | **Persons at risk** |  | Additional Controls Required |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**Likelihood**



How often could the hazard occur? Consider the task, frequency, duration, method of work, employees involved.

**Severity**

How serious would the hazard’s effects be if

realised? Consider the type of hazard, biological, ergonomic, physical and chemical.

**Risk =** Likelihood x Severity

E.g. Likelihood (4) X Severity (3) = 12 **HIGH RISK**