|  |  |  |
| --- | --- | --- |
| **Task/Description:** Hot Works | | |
| **Assessed By:** | Alasdair Ewen | **Approved By:** |
| **Assessment Date:** | 11th April 2023 | **Review Date: 11th April 2026**  (Review not to exceed 3 years from assessment date) |

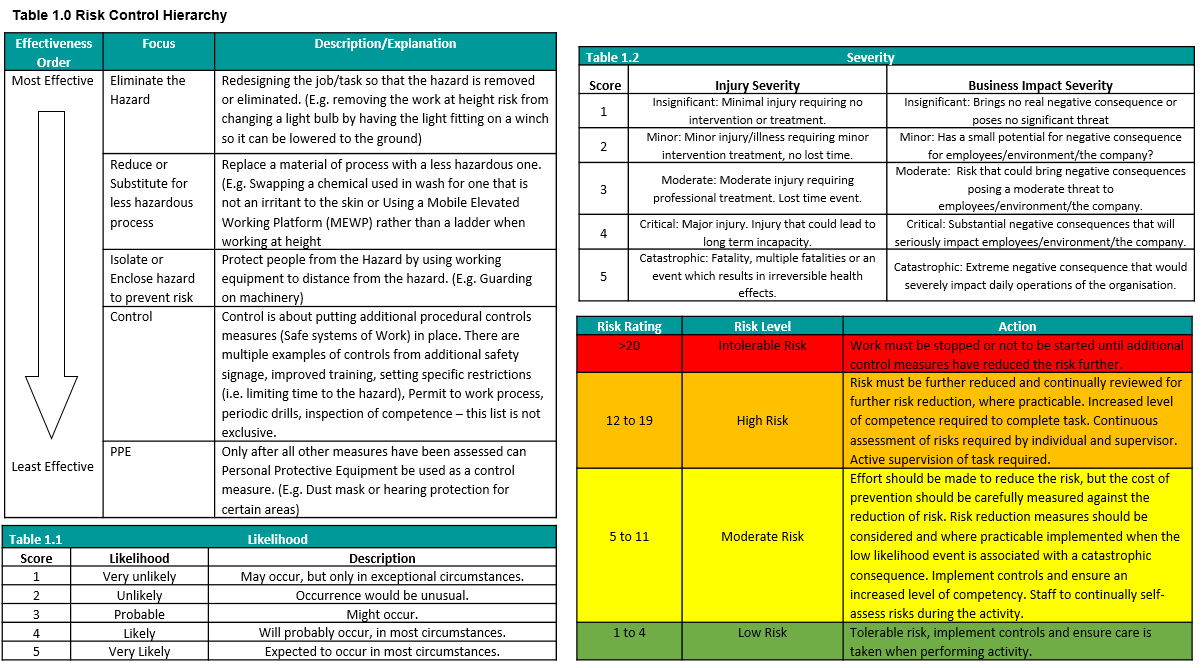
For specific risks we MUST have specific assessments – such as COSHH, DSE, Fire, Manual Handling, the business has specific forms for such RA’s, which should be referenced in the ‘Additional Information’ column.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Hazard Identification – Indicate which of the following hazards are considered in this assessment** | | | | | |
| Access or egress |  | Harmful/Toxic substances |  | Power operated tools or machinery | x |
| Asbestos |  | Hazard to other activities | x | Pressure (implosion/explosion/high pressure system) |  |
| Biological agent/hazard |  | Hazards from other activities |  | Radiation (Ionising/non-ionising) |  |
| Confined space |  | Hot works/radiant heat | x | Remotely operated machinery |  |
| Corrosive/Irritant/Sensitising Substance |  | Impact/Contact hazards |  | Rotating Parts (Entanglement) |  |
| Crush hazards |  | Lasers |  | Slip trips and falls |  |
| Dust/particles | x | Lead |  | Stored energy |  |
| Electrical | x | Lighting |  | Temperature (hot/cold environment/surfaces) |  |
| Ergonomic factors (repetitive/posture/stretching) |  | Lone working |  | Traps/nips |  |
| Excavations |  | Manual handling |  | Underground services |  |
| Falling or flying objects |  | Mobile plant |  | Vapours/Mists |  |
| Falls from height |  | Needle stick or Sharps |  | Vehicle/Plant Movements |  |
| Fire or explosion | x | Noise |  | Ventilation | x |
| Flames, sparks radiant heat | x | Overhead services |  | Vibration (whole body/hand-arm) |  |
| Flammable Substances |  | Pace of Work |  | Violence/abuse/assault |  |
| Fumes | x | Pedestrian access and egress |  | Weather conditions |  |
| Hand operated tools or machinery | x | Pedestrian movement |  | Working near water |  |
| Harmful or explosive gases |  | Pneumatic tools/compressed air |  | Other (please state) – Source of blinding light (arc eye) | x |

| **Hazard No.** | **Record Significant Hazards** | **Person(s) at Risk** | **Existing Control Measures** | **Initial**  **Risk Rating** | | | **Additional Control Measures** | **Residual**  **Risk Rating** | | | | **Additional**  **Information** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S** | **L** | **R** | **S** | **L** | **R** |  | |
| Provide specific details. E.g. ‘work at height” say how high. E.g. “Electricity” state voltage and type of hazard, Striking underground services | Who might be harmed and how E.g. “Contractor or Employee Fall from Height” | Detail existing control measures.  These are the controls that are currently in place | S – Severity  L – Likelihood  R - Risk | | | Detail additional control measures needed to eliminate hazard completely or minimise risk to acceptable level.  (Include in Action Plan) | S – Severity  L – Likelihood  R - Risk | | | | Cross Reference & Additional  Information e.g. SSW, | |
| **H1** | **Fire or Explosion**   * Welding sparks igniting flammable materials or gases/liquids | **PHS Engineer**  **Client**  **Employees**   * Burns * Percussive injuries | * Engineers trained, experienced and signed off as competent to perform hot works. * Area to be welded closely inspected for cleanliness, and free from oils and grease. * All flammable materials, gas bottles, drums etc to be cleared a minimum of 3m away from work area * Welding PPE as stated in MS to be worn. | 5 | 2 | 10 |  |  |  |  |  | |
| **H2** | **Flames/Sparks/ Radiant heat**   * Material ignited by welding sparks/heat * Sparks flying out from welding area * Radiant heat from welded area | **PHS Engineer**  **Client**  **Employees**   * burns | * Area to be welded closely inspected for cleanliness, and free from oils and grease. * All flammable materials, gas bottles, drums etc to be cleared a minimum of 3m away from work area * Welding screen to be used to shield other areas from sparks/welding arc. * Welded area allowed time to cool before barriers/screens removed   . | 4 | 2 | 8 |  |  |  |  |  | |
| **H3** | **Fumes**   * Fumes generated by welding rod * Fumes generated from area being welded (e.g., burning paint) | **PHS Engineer**  **Client**  **Employees**   * Inhalation of welding fumes can cause respiratory issues. | * Air-fed welding mask to EN175, EN 379, EN166 to be worn * Adequate ventilation available at the worksite. Portable LEV may be used where appropriate, or equipment must be moved to a suitable area. * Paint, oils and grease to be removed from area to be welded before work carried out. | 3 | 2 | 6 |  |  |  |  |  | |
| **H4** | **Hot works/ Radiant Heat**   * Fumes from welding process * Radiant heat from welded parts * Eye injury from welding arc | **PHS Engineer**  **Client**  **Employees** | * Covered in separate entries on this RA * H3 Fumes, H6 Ventilation * H2 Flames/Sparks/Radiant Heat * H7 Injury from welding arc | 3 | 2 | 6 |  |  |  |  |  | |
| **H5** | **Power operated tools**   * Welding arc uses high voltages/current | **PHS Engineer**  **Client**  **Employees**   * Risk of electrocution or burns from equipment | * All equipment to be thoroughly inspected for damage before and after each use * Damaged equipment must not be used under any circumstances. | 4 | 2 | 8 |  |  |  |  |  | |
| **H6** | **Other: Lack of Ventilation**   * Any fumes that would reduce oxygen in area | **PHS Engineer**  **Client**  **Employees**   * Respiratory issues * Environmental | * Adequate ventilation should be available at the worksite. Portable LEV may be used where appropriate, or equipment must be moved to a suitable area. * Open external doors/windows to disperse fumes | 4 | 2 | 8 |  |  |  |  |  | |
| **H7** | **Other – Source of blinding light**   * Risk of “arc-eye” from welding arc | **PHS Engineer**  **Client**  **Employees**   * All persons in vicinity not wearing EN379 eye protection | * Work area to be cleared of all non-essential personnel. * Welding screen(s) to be erected around work area | 4 | 2 | 8 |  |  |  |  |  | |
| **H8** | **Emergency Procedures** | **PHS Engineer**  **Clients Employees** | * Please refer to RA for Emergency Procedures | 5 | 2 | 10 |  |  |  |  | * RA0024 Emergency Procedures | |

**ACTION PLAN**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Task** | **Risk** | **What further action do you need to take to control the risk?** | **By whom** | **Due Date** | **Date Complete** |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |
| 6 |  |  |  |  |  |
| 7 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
| 10 |  |  |  |  |  |
| 11 |  |  |  |  |  |
| 12 |  |  |  |  |  |
| 13 |  |  |  |  |  |
| 14 |  |  |  |  |  |
| 15 |  |  |  |  |  |
| 16 |  |  |  |  |  |
| 17 |  |  |  |  |  |
| 18 |  |  |  |  |  |
| 19 |  |  |  |  |  |
| 20 |  |  |  |  |  |
| 21 |  |  |  |  |  |



Risk Assessment Sign Off Sheet

|  |  |  |  |
| --- | --- | --- | --- |
| Site Name |  | Site Manager |  |
| RA Title / Reference No. | RA0011 Hot works | RA Version Number | 1 |
| I have received training as to the hazards relating to the process/area, as outlined in the Risk Assessment and the control measures I should use to work safely. In the event of any queries I am aware I should stop work and speak to my supervisor or line manager. | | | |

|  |  |  |
| --- | --- | --- |
| Name | Signature | Date |
|  |  |  |