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| **Date of assessment:** |       | **Site / Area:**  |  | **Risk Assessment #:** | **042RA** |
| **Department/Area:** |       |
| **Identify / describe activity, equipment, area or event you are assessing:**  | **CIG Transarc Welder** |

| **Step 1:** **Identify the hazard/s:**What do you believe are the hazards?(Refer hazard sheet) | **Step 2: Assess the risks:**What do you believe are the risks?(Refer hazard sheet ) | **Step 3: Reducing the risk**:What do you believe can be done to reduce the risk?(Refer hazard sheet ) |
| --- | --- | --- |
| **What could cause harm?** | **What could go wrong?** | **Controls** |
| Electrical  | * Worker or student could get electrocuted or receive an electric shock from poorly maintained/damaged plant
* Electrical installation could be impacted and damaged
* Wiring could cause an electrical fire
* Student could receive a shock from the Earth Connection on the welding plant
* Welding Flash
 | The plant undergoes regular electrical inspectionsThe main power distribution board is RCD protectedWorkplace inspections are conducted to identify defective items Workers and students are adequately training in the safe operation of the plant.Workers and students wear required PPE and welding shield.  |
| Burns | * Worker or student could receive a burn from hot welding rods and/or welding slag.
 | Workers and student are trained in the safe use of the plant and associated equipmentPPE is provided in the form of welding glovesFirst aid and cold running water is available if required.  |
|  Fumes | * Asthma
* Irritation to the lungs
 | Welding bays have fume extraction system fittedMask is available on request |
| Flying particles  | * Worker/student receiving an eye injury from flying particles due to chipping welding slag
 | Eye protection is worn by all workers and students when using the plant |
| Noise | * Potential hearing loss/impairment
* Workers/students cannot communicate due to noise
 | Hearing protection is available if required Workers/students are trained on the dangers of workplace noise  |
| Manual Handling of the plant and moving product on/off the plant | * Bending/stooping to adjust settings on the plant
* Moving projects on/off the welding table.
 | All workers and students are trained in safe manual handling techniques Trolleys are available for moving items if required |
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| **Completed by (name):** |  | **Signature:** |  | **Date:** |  |
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| **In consultation with (name):** |  | **Signature:** |  | **Date:** |  |

**Review hazard/risk assessment if task or circumstances change and at intervals appropriate to the level of risk (minimum 5 years).**

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| **Step 4: Monitor & review:**(Refer to hazard sheet)**Please tick Yes or No** |
| **Were the controls effective?** | **Were there any unforeseen hazards/ incidents?** | **New controls** |
| **Yes** | **[ ]**  | **No** | **[ ]**  | **Yes** | **[ ]**  | **No** | **[ ]**  |
| **DETAILS** | **DETAILS** | **DETAILS** |
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| **Name:** |  | **Signature:** |  | **Date:** |  |