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| Site / Area: |  | Date of Assessment |  | Risk Assessment # | **042RA** |
| Completed by (name) |  | Signature |  | | |
| In Consultation with: |  | Signature |  | | |
| Identify / describe activity, equipment, area or event you are assessing: | | | **CIG Transarc Welder** | | |
| Authorised by: |  | Signature: | Template only MUST modify to site conditions | Date: |  |
| **In conjunction with this risk assessment, training / education and development of a relevant SOP may be required.** | | | | | |
| **Step 1:** **Identify the hazard/s / Impact:**What do you believe are the hazards? What could happen? | | **Step 2: Assess the potential risks:**  What do you believe are the risks?  How could this happen? | | **Step 3: Reducing the risk:**  What do you believe can be done to reduce the risk?  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 itemsWorkers 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.Complete Hot Work permit | |
| * 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 requiredWorkers/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 | |
| * Other: | |  | |  | |
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| **Review hazard / risk assessment if task or circumstances change & at intervals appropriate to the level of risk (minimum 5 years)** | | | | | | | | |
| **Step 4: Monitor & Review:** | | | | | | | | |
| Were the controls effective? | | | | Were there any unforeseen hazards / incidents? | | | | New controls |
| Yes |  | No |  | Yes |  | No |  |
|  | | | |  | | | |  |