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| Site / Area: |  | Date of Assessment |  | Risk Assessment # | **043RA** |
| Completed by (name) |  | Signature |  | | |
| In Consultation with: |  | Signature |  | | |
| Identify / describe activity, equipment, area or event you are assessing: | | | **CIG Transmig Welder** | | |
| Authorised by: |  | Signature: |  | Date: |  |
| **In conjunction with this risk assessment, training / education and development of a relevant SOP may be required.**  Template only MUST modify to site conditions | | | | | |
| **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/sparks | | * The plant undergoes regular electrical inspections * The main power distribution board is RCD protected * Workplace 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 mig wire | | * Workers and student are trained in the safe use of the plant and associated equipment * PPE is provided in the form of welding gloves * First 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 fitted * Mask is available on request | |
| * 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 pick up items * Moving projects on/off the welding table * Replacing Argon gas bottles | | * Trolleys are available for moving items if required * All workers and students are trained in safe manual handling techniques | |
| * 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 |  |
|  | | | |  | | | |  |