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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.
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| * 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.
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| * Fumes
 | * Asthma
* Irritation to the lungs
 | * Welding bays have fume extraction system fitted
* Mask is available on request
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| * 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
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| * 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
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| * 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 | [ ]  |
|  |  |  |