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| **Site / Area:** |       | **Date of assessment:**  |  | **Risk Assessment #:** | **038RA** |
| **Completed by (name):** |        | **Signature:** |       |
| **In Consultation with** |       | **Signature:** |       |
| **Identify / describe activity, equipment, area or event you are assessing:**  | **Air Compressor** |
| **In conjunction with this risk assessment, training / education and development of a relevant SOP may be required.** |
| **Step 1:** **Identify the hazard/s:**What do you believe are the hazards?(Refer Risk Assessment Guideline (015G)) | **Step 2: Assess the risks:**What do you believe are the risks?(Refer *Risk Assessment Guideline (015G))* | **Step 3: Reducing the risk:**What do you believe can be done to reduce the risk?(Refer *Risk Assessment Guideline 015G)* |
| **What could cause harm?** | **What could go wrong?** | **Controls** |
| **Machinery & Equipment*** Parts being ejected
* Cracked hoses
* Uncontrolled release of compressed air
* Being hit by a moving part
* Lack of maintenance
 | * Becoming entangled in moving parts of the plant (“V” belt drive wheels)
* Laceration or amputation of fingers or hand in the moving belt/wheels
* Being hit by damaged air-line / fitting becoming dislodged
* Blowing compressed air at others or self
* Injured while conducting maintenance on the plant
* Plant could explode / disintegrate from over-pressure valve or regulator not working correctly.
 | * Plant has mesh guarding fitted to drive wheels and is enclosed in a mesh safety cage.
* Regular workplace inspections are conducted
* Person instructed to not blow compressed air at others and not to place air outlet on their skin.
* Persons are trained in plant maintenance and all equipment is “locked-out” electrically when maintenance is undertaken
* Blow off fittings to be used where possible.
* Lock Out / Tag Out system in place.
* Two (2) yearly inspections required for those compressors that require registration with SafeWork SA. (Refer WHS Regulations SA Schedule 5 (Part 1))
 |
| **Electrical** * electrical exposure
* frayed cords
* faulty plugs
* overheating equipment
* cutting through cords
* faulty appliance.
 | * Electrocuted
* Electric shock from poorly maintained / damaged plant
* Electrical installation could be impacted and damaged
* Damaged wiring could cause an electrical fire
* Plant could start automatically without warning.
 | * The plant undergoes regular electrical inspections (test & tag)
* The main power distribution board is RCD protected
* Workplace inspections are conducted to identify defective items
* Plant is fitted with standard on / off control panel.
* Lock Out / Tag Out system in place.
 |
| **Noise*** loud noises
* prolonged exposure
* noisy equipment.
 | * Potential hearing loss /impairment
* Workers and others cannot communicate due to noise
 | PPE is available if required, ear plugs, ear muffs.Compressor has been permanently mounted outside the building. |
| **Hazardous Manual Tasks*** moving small air compressors
 | * Sprains / strains
 | Minimise the need to move portable air compressors. * Wheels are checked regularly to ensure are working effectively
 |
| **Gravity*** slips, trips or falls from cords
 | * Sprains / strains
* Broken limbs
 | Ensure cords are kept secured and not in walkways. |
| **Other** | *
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| **Authorised by (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:** |  |