Template only MUST modify to site conditions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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** |
| Authorised by: |       | Signature: |       | 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 |
| **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, earmuffs.* 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** | *
 | *
 |
| **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 | [ ]  |
|  |  |  |