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| 1. Hazard Management Details – General | | | |
| **Plant/Equipment Item: High Pressure Water Cleaner** | **Make/Model No.:** | | **Serial No.:** |
| **School / Work Location:** | **Region:** | | |
| **Name of Person(s) Conducting Activity:** | | | **Date Conducted:** |
| [High Pressure Water Cleaner   Description: 221015-thumb](http://media.supercheapauto.com.au/sca/images/221015.jpg) | | **Description of Use:**  A high-pressure water cleaner is a mechanical sprayer that uses high-pressure water to clean vehicles, buildings, roads etc. | **Summary of Key Risks:**  **(refer to appropriate subsections)**     * Impact (from back spray) * Pressurised content * Electricity * Ergonomics * Slips/trips/falls |

Plant and Equipment Risk Management Form

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| 2. Documentation | | |
| **Relevant Legislation/Standards** | **Y / N** | **Comments** |
| **Is plant required to be registered?** | Y  N |  |
| **Is a user license required?** | Y  N |  |
| **Key Reference material** |  | AS/NZS 3160 Approval and test specification – Hand-held electrical power tools  AS/NZS 60745.1 Hand-held motor-operated electric tools – Safety – General requirements  AS 4024.1 Safety of machinery  AS/NZS 3760 In service safety inspection and testing of electrical equipment.  AS/NZS 60745.2 Hand-held motor-operated electric tools – Safety – Particular requirements for hedge trimmers |
| **Plant Documentation** | **Y / N** | **Comments** |
| **Are operator’s manuals accessible?** | Y  N |  |
| **Is this a restricted use item?** | Y  N |  |
| **Does this item require safe use documents/test?** | Y  N |  |

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| 3. Hazard Identification | | | |  | | | | |
| **Hazards Inspected** | | | | **Risk Assessment** | | | **Description of Risk** | **Control Measures** |
|  | | | | **Cons** | **Like** | **Risk**  **Level** |  |  |
| **ENTANGLEMENT**  Can anyone’s hair, clothing, gloves, cleaning brushes, tools, rags or other materials become entangled with moving parts of the plant or materials? | | Y  N | |  |  |  |  |  |
| **Hazards Inspected** | | | **Risk Assessment** | | | | **Description of Risk** | **Control Measures** |
|  | | | **Cons** | | **Like** | **Risk**  **Level** |  |  |
| **IMPACT AND CUTTING INJURIES**  Can anyone be crushed/cut/struck etc. due to: |  | |  | |  |  | Potential for impact from back spray containing water and/or debris.  Strike with uncontrolled hose or coupling. | Ensure high pressure cleaner is operated and maintained in accordance with manufacturer’s instructions.  Wear appropriate PPE (e.g. goggles and water proof clothing etc.). |
| * Material falling off the plant? | Y  N | |  | |  |  |
| * Uncontrolled/unexpected movement of plant/load? | Y  N | | Minor | | Unlikely | Low |
| * Lack of capacity to slow, stop or immobilise plant? | Y  N | |  | |  |  |
| * The plant tipping or rolling over? | Y  N | |  | |  |  |
| * Parts of the plant disintegrating or collapsing? | Y  N | |  | |  |  |
| * Contact with moving parts during testing, inspection, operation, maintenance, cleaning or repair? | Y  N | |  | |  |  |
| * Being thrown off or under the plant? | Y  N | |  | |  |  |
| * Contact with sharp or flying objects? (e.g. work pieces being ejected) | Y  N | | Minor | | Possible | Medium |
| * The mobility of the plant? | Y  N | |  | |  |  |
| * Inappropriate parts and accessories being used? | Y  N | |  | |  |  |
| * Other | Y  N | |  | |  |  |

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| Hazards Inspected | | Risk Assessment | | | | Description of Risk | Control Measures |
|  | | **Cons** | **Like** | **Risk**  **Level** |  | |  |
| **SHEARING**  Can anyone’s body parts be sheared between two parts of plant, or between a part of the plant and a work piece or structure? | Y  N |  |  |  |  | |  |
| **PRESSURISED CONTENT**  Can anyone come into contact with fluids or gases under high pressure, due to plant failure or misuse of the plant? | Y  N | Minor | Possible | Medium | Excess pressure and/or damaged accessories may cause blow out of air or water.  Misuse of equipment can lead to contact with pressurised content. | | Ensure equipment is operated and maintained in accordance with manufacturer’s instructions.  Ensure equipment is not directed at people or animals. |
| **ELECTRICITY**  Can anyone be injured or burnt due to: |  |  |  |  | The high pressure cleaner can pose an electrical hazard if improperly used, directed at live electrical equipment or has damaged or frayed electrical cables. | | Ensure the high pressure cleaner is not directed at live electrical equipment.  Ensure equipment is serviced on a regular basis in accordance with manufacturer’s operating instructions, tested and tagged and appropriate isolation procedures (e.g. lock out tags) are in place.  Ensure the power cord or extension cables are not damaged by running over, pinching, dragging or similar. |
| * Live electrical conductors? (*e.g.* exposed wires) | Y  N |  |  |  |
| * Working in close proximity to electrical conductors? | Y  N |  |  |  |
| * Access to electricity? | Y  N |  |  |  |
| * Damaged or poorly maintained electrical leads, cables or switches? | Y  N |  |  |  |
| * Water near electrical equipment? | Y  N | Moderate | Possible | Medium |
| * Lack of isolation procedures? | Y  N |  |  |  |
| * Other | Y  N |  |  |  |

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| Hazards Inspected | | Risk Assessment | | | Description of Risk | Control Measures |
|  | | **Cons** | **Like** | **Risk**  **Level** |  |  |
| **ERGONOMICS**  Can anyone be injured due to: |  |  |  |  | Repetitive and sustained use of the high pressure cleaner could pose a manual handling hazard. | Ensure appropriate manual handling techniques are applied when handling the high pressure cleaner.  Ensure appropriate rest breaks are taken. |
| * Poorly designed workstation? | Y  N |  |  |  |
| * Repetitive body movement? | Y  N | Minor | Possible | Medium |
| * Constrained body posture or the need for excessive effort? | Y  N |  |  |  |
| * Design deficiency causing psychological stress? | Y  N |  |  |  |
| * Inadequate or poorly placed lighting? | Y  N |  |  |  |
| * Does the plant impact on the surrounding workplace and create potential hazards? (Consider potential impact on the design and layout of the workplace) | Y  N |  |  |  |
| * Is the location of the plant inappropriate? (Consider potential effects due to environmental conditions and terrain) | Y  N |  |  |  |
| * Other | Y  N |  |  |  |

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| Hazards Inspected | | Risk Assessment | | | Description of Risk | Control Measures |
|  | | **Cons** | **Like** | **Risk**  **Level** |  |  |
| **RADIATION**  Can anyone using the plant, or in the vicinity of the plant suffer injury or illness due to exposure to radiation in the form of any of the following:   * infra-red radiation * ultra violet light * microwaves | Y  N |  |  |  |  |  |
| **NOISE**  Can anyone using the plant, or in the vicinity of the plant, suffer injury due to exposure to noise? | Y  N |  |  |  |  |  |
| **VIBRATION**  Can anyone be injured or suffer ill-health from exposure to vibration? | Y  N |  |  |  |  |  |
| **FRICTION**  Can anyone be burnt due to contact with moving parts, materials or surfaces of the plant? | Y  N |  |  |  |  |  |
| **SUFFOCATION**  Can anyone be suffocated due to lack of oxygen, or atmospheric contamination? | Y  N |  |  |  |  |  |
| **CONDITION**  Is a hazard likely due to the age and condition of the plant? (*Consider how hard the machine has been worked, and whether it is used constantly or rarely).* | Y  N |  |  |  |  |  |
| * Can anyone be injured as a result of the plant not serviced appropriately and/or maintained in line with manufacturer’s recommendations? | Y  N |  |  |  |

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| Hazards Inspected | | Risk Assessment | | | | | Description of Risk | | Control Measures |
|  | | **Cons** | | **Like** | **Risk**  **Level** | |  | |  |
| **SLIPS/TRIPS/FALLS**  Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to: |  |  | |  |  | | Cleaning operations which produce and/or allow the build-up of liquid materials or failure to immediately clean up spills could result in a slip, trip or fall hazard. | | Ensure that appropriate housekeeping practices are maintained to minimise the risk of a slip, trip or fall.  Ensure appropriate footwear is worn. |
| * Uneven, slippery or steep work surfaces? | Y  N | Minor | | Possible | Medium | |
| * Poor housekeeping, e.g. spillage in the vicinity? | Y  N | Minor | | Possible | Medium | |
| * Obstacles being placed in the vicinity of the plant? | Y  N |  | |  |  | |
| * Inappropriate or poorly maintained floor or walking surfaces (i.e. lack of a slip-resistant surface, unprotected holes, penetrations or gaps?) | Y  N |  | |  |  | |
| If operating or maintaining plant at height can anyone slip, trip or fall due to: |  |  | |  |  | |
| * Use of work platforms, stairs or ladders? | Y  N |  | |  |  | |
| * Lack of guardrails or other suitable edge protection? | Y  N |  | |  |  | |
| * Other | Y  N |  | |  |  | |
| **Hazards Inspected** | | **Risk Assessment** | | | | **Description of Risk** | | | **Control Measures** |
|  | | **Cons** | | **Like** | **Risk**  **Level** |  | | |  |
| **FIRE AND EXPLOSION**  Can anyone be injured by fire? | Y  N |  | |  |  |  | | |  |
| * Can anyone be injured by explosion of gases, vapours, liquids, dusts, or other substances? | Y  N |  | |  |  |
| **TEMPERATURE/MOISTURE**  Can anyone come into contact with objects athigh or low temperatures? | Y  N |  | |  |  |  | | |  |
| * Can anyone suffer ill-health due to exposure to high or low temperatures? | Y  N |  | |  |  |
| * Can anyone be injured or suffer ill-health due to exposure to moisture? | Y  N |  | |  |  |
| **OTHER** Can anyone be injured or suffer ill-health from exposure to: |  |  | |  |  |  | | |  |
| * Chemicals? | Y  N |  | |  |  |
| * Toxic gases or vapours? | Y  N |  | |  |  |
| * Fumes/Dusts? | Y  N |  | |  |  |
| * Other? (please specify) | Y  N |  | |  |  |
| **4. Risk Assessment Signoff** | | | | | | | | | |
| Authorised By: | | | Signature: | | | | | Date: | |

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| Consequence - Evaluate the consequences of a risk occurring according to the ratings in the top row  |  |  |  | | --- | --- | --- | | Descriptor | Level | Definition | | **Insignificant** | **1** | No injury | | **Minor** | **2** | Injury/ ill health requiring first aid | | **Moderate** | **3** | Injury/ill health requiring medical attention | | **Major** | **4** | Injury/ill health requiring hospital admission | | **Severe** | **5** | Fatality |   3. Risk level - Calculate the level of risk by finding the intersection between the likelihood and the consequences   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Likelihood | Consequence | | | | | | **Insignificant** | **Minor** | **Moderate** | **Major** | **Severe** | | **Almost Certain** | Medium | High | Extreme | Extreme | Extreme | | **Likely** | Medium | Medium | High | Extreme | Extreme | | **Possible** | Low | Medium | Medium | High | Extreme | | **Unlikely** | Low | Low | Medium | Medium | High | | **Rare** | Low | Low | Low | Medium | Medium | | Likelihood - Evaluate the likelihood of an incident occurring according to the ratings in the left hand column  |  |  |  | | --- | --- | --- | | Descriptor | Level | Definition | | **Rare** | **1** | May occur somewhere, sometime (“once in a life time / once in a hundred years”) | | **Unlikely** | **2** | May occur somewhere within the Department over an extended period of time | | **Possible** | **3** | May occur several times across the Department or a region over a period of time | | **Likely** | **4** | May be anticipated multiple times over a period of time  May occur once every few repetitions of the activity or event | | **Almost Certain** | **5** | Prone to occur regularly  It is anticipated for each repetition of the activity of event |   4. Risk Level/Rating and Actions   |  |  | | --- | --- | | Descriptor | Definition | | **Extreme:** | Notify **Workplace Manager and/or Management OHS Nominee** immediately. Corrective actions should be taken immediately. Cease associated activity. | | **High:** | Notify **Workplace Manager and/or Management OHS Nominee** immediately. Corrective actions should be taken within 48 hours of notification. | | **Medium:** | Notify **Nominated employee, HSR / OHS Committee**. Nominated employee, OHS Representative / OHS Committee is to follow up that corrective action is taken within 7 days. | | **Low** | Notify **Nominated employee, HSR / OHS Committee**. Nominated employee, HSR / OHS Committee is to follow up that corrective action is taken within a reasonable time. | |