Polivac InternationalOccupational Health and Safety Management Protocol

HAZARD IDENTIFICATION AND RISK ASSESSMENT

STEP 1: IDENTIFY HAZARDS

WHAT IS A HAZARD? – A hazard is something with the potential to cause harm.

HAZARD	RISK
Work Environment	The likelihood that a worker might suffer carbon monoxide poisoning because they are using a petrol driven pump in a well.
Energy – electricity	The likelihood that a worker might be electrocuted because they are exposed to electrical wires whilst using a deep fryer that has inadequate insulation
Manual Handling	The likelihood that a worker might suffer back strain from manually lifting 40kg bags.
Noise	The likelihood that a workers and others in the area might suffer irreparable hearing damage because they work near someone continuously using a jack hammer > 85 d(B) A
Substance	The likelihood that a worker might sustain a needle stick injury and become infected whilst taking a blood sample from a patient with infected blood
Plant	The likelihood that a worker workers hand might be crushed whilst using a printing machine because the unguarded rollers drew in the workers hand

WHAT IS A RISK? - A risk is the likelihood that death, injury or illness might result because of the hazard.

STEP 2 – ASSESS THE RISK

Risk Assessment Method

- (a) For each of the risks:
 - Estimate the **likelihood** of an incident occurring at your workplace.
 - Estimate the **consequence** of an incident occurring at the workplace
 - Combine your likelihood and consequence estimates to the risks.

Using the ratings of each risk develop a prioritized list of workplace risks requiring action.

Likelihood Rating

1	Extremely likely	Could happen frequently
2	Likely	Could happen occasionally
3	Unlikely	Could happen but rarely
4	Very unlikely	Could happen, but probably never will

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Extreme	Death or permanent disablement		
Major	Serious bodily injury or serious work caused illness		
Moderate	Moderate injury illness requiring casualty treatment		
Minor	Minor injury or illness requiring first aid only, no lost work		
	time		

Risk Ranking Method

For each identified hazard, the appropriate likelihood and consequence rating is selected. These are a guide only and different situations or operating environments may alter the predicted outcome.

Risk Priority Chart

LIKELIHOOD How likely it could	CONSEQUENCES: How severely it could affect health and safety			
occur?	EXTREME —death - or disablement	MAJOR - Serious bodily injury or serious work caused illness	MODERATE - Injury or illness requiring casualty treatment	MINOR - Injury or illness requiring first aid only, no lost time
VERY LIKELY – could happen frequently	1	2	3	4
LIKELY – could happen occasionally	2	3	4	5
UNLIKELY – could happen, but rare	3	4	5	6
VERY UNLIKELY Could happen, probably never will	4	5	6	7

This stage of the Risk Assessment gives a basis for ranking risks in terms of their priorities.

It is important to note that the risk scores obtained have no absolute value. This chart provides a means for ranking the risks only.

The scores 1-7 in the risk priority chart indicate how important it is to do something about each risk, as follows:

Score	Action
1, 2 or 3	Do something about these risks immediately
4 or 5	Do something about these risks as soon as possible
6 or 7	These risks may not need immediate attention

PRIORITISE RISKS

Priorities risks based on their score

Remember, the risk scores are useful for comparison purposes ONLY. When the risk scores for all risks in the workplace are compared, the resulting ranking will be a guide to the order in which the risks should be addressed.

Step 3 DECIDE ON CONTROL MEASURES

CONTROL PRIORITIES

Firstly, try to eliminate the hazard

If this is not possible, **prevent or minimize exposure to the risk** by one or a combination of:

- Substituting a less hazardous material, process or equipment
- Redesigning equipment or processes
- *Isolating* the hazard

Note: These measurers may include engineering methods

As a last resort, when exposure to the risk is not (or can not be) minimized by other means:

- Introduce administrative controls
- Use appropriate personal protective equipment

1.0 Description

1.1 1700E Auto Scrubber

2.0 Construction

Fully featured and easy to operate, the 1700E automatically lays the solution on the floor, scrubs with a powerful 40cm pad or brush, then collects the dirty solution in one pass, leaving the floor clean and dry.

The Poliflow brush rotation system facilitates forward propulsion of the machine.

The 1700E features a swivel 50cm replaceable cartridge squeegee for forward and reverse pick up and a quick release brush/pad coupling for attachment or removal without leaving the controls.

The polypropylene tanks offer strength, durability and long life as they will not rust, dent, chip, crack, peel or fade.

Manufactured from high quality components the 1700E is robust and hardwearing and perfectly suited to the contractor market.

3.0 Potential Hazards

3.1 Electric shock

- (1) Damage to the electric cord
- (2) Wetting, spraying, washing machine with water whilst power is connected
- 3.2 Injury due to burns, fire or explosion when operating machinery
- 3.3 Property damage due to colliding with fixtures or damage to machinery
- **3.4** Injury due to trips, slips and falls
- 3.5 Joint and bone disorder due to machine vibration
- 3.6 Muscular skeletal damage due to incorrect operation of machine

4.0 Risk Priority Chart

Hazard	Likelihood	Consequence	Control Priorities
Electric Shock	3	4	Ensure cord is in serviceable condition
			at start/finish of every shift and lead is
			fitted with a current test and tag
Burns, Fire or	4	6	Machine must not be operated in an
Explosion			area where flammable goods are stored
Property Damage	4	6	Ensure machine is always operated by
			fully trained & competent persons
Slips, Trips or	3	5	Correct footwear must be worn. Signs -
Falls			this machine is operated on a wet floor
Vibration	3	5	Don't operate machine for extended
			periods without a rest. Ensure machine
			is correctly adjusted to prevent
			sideways drag
Muscular Skeletal	3	5	When turning – do not twist. Ensure
			operator is fully trained

5.0 Safe use

The machine operations manual should be read and fully understood prior to machine operation. This machine is not designed for use by young children without proper adult supervision.

5.1 Hazard 3.1 Electric shock

- 5.1.1 Hazard 3.1 (1) Damage to the electric cord
- **5.1.1.1** Do not pull on an entangled cord while using the machine, this can
 - Sever the insulation exposing live wires
 - Break the conductors in the cord causing the unit to become inoperative
 - Stretch the cord causing it to kink and knuckle, and create hot portions along its length
- **5.1.1.2** Stretching of the cord can also be caused by,
 - Winding the cord from the machine end while still plugged into the power point
 - Winding the cord from the plug end
 - Looping the cord too tightly
- **5.1.1.3** Check cord for cuts and fractures daily, and clean cords if soiled after use
- **5.1.1.4** Replace knuckled, cut or damaged cords
- **5.1.1.5** When cleaning tasks are completed, switch the 1700E OFF at the machine, then switch OFF at the power point and unplug from the power point. Gather the cord from the machine end and loop over the cord storage points on the frame for storage
- 5.1.1.6 The electric lead to this machine must always be fitted with a current test and tag

 NOTE Machine must never be used with an extension cord other than the cord
 supplied with the machine maximum length must not exceed 20 meters

5.1.2 Hazard 3.1 (2) Wetting, spraying, washing machine with water and with power connected

- **5.1.2.1** Do not store the machine outdoors or expose to rain
- **5.1.2.2** Do not handle plug or machine with wet hands and power connected
- **5.1.2.3** Extreme caution should be taken when filling the water storage tank to ensure water doesn't enter the electric motor /3 pin plug on lead
- **5.1.2.4** Do not clean the machine by spraying it with water, detergent, or cleaning solutions however the recycling tank must be wiped clean on a regular basis. The outer casing and tank should be wiped over regularly with a damp cloth.

5.2 Hazard 3.2 Injury due to burns, fire or explosion when operating machinery

5.2.1 Do not use this machine in areas where flammable or combustible liquids, vapors or gases are present. The motor used in this machine can cause explosions when used in areas containing these.

5.3 Hazard 3.3 Property damage due to colliding with fixtures or damage to machinery

- **5.3.1** Ensure that machine is operated according to operating instructions
- **5.3.2** Ensure that area in which machine is to be operated is clearly identified with correct signage and clear of obstacles
- **5.3.3** Ensure that the area that the machine is to be used in is greater than 500mm wide

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Hazard 3.4 Injury due to trips, slips and falls

- **5.3.4** Operators should not wear open top shoes when using this equipment
- **5.3.5** Plan the work path based on obstacles within the work area

5.4 Hazard 3.6 Joint and bone disorder due to machine vibration

- **5.4.1** Ensure that machine is correctly maintained and serviced as per operating instructions
- **5.4.2** When operating correctly the machine should pose no risk of vibration exposure to the operator

5.5 Hazard 3.8 Muscular skeletal damage due to incorrect operation of machine

- **5.5.1** Operate machine as per operating instructions
- **5.5.2** When turning do not twist at the waist, turn using your feet
- **5.5.3** Never run whilst operating the machine. Machine only to be operated at walking pace
- **5.5.4** Exercise great care when operating machine on raised platforms or close to stairs
- **5.5.5** Ensure machine is adjusted correctly to prevent sideways drag.

6.0 CONCLUSION

Polivac International 1700E Auto Scrubbers are manufactured to the highest possible standards and meet the requirements of Australian Standards.

Polivac International is a quality endorsed company, committed to meeting the requirements ISO 9001:2000 – Quality Management Systems, and providing customer assurance that manufactured product, will continue to meet Australian Standards.

Polivac International is committed to adhering to all Occupational Health and Safety Codes of Practice and Legislation, and is proud of its commitment to providing a safe work environment for its employees and machine operators.