







Risk, Health and Safety

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1. Hazard Management Details – General					
This form relates to OHS Procedure – Hazard Identification, Risk Assessment and Control (HIRAC)					
Plant/Equipment Item: Mayku Vacuum Form	Make/Model No.:	Serial No.:			
School / Work Location: Ballarat Tech School (Fed College)	Region:				
Name of Person(s) Conducting Activity: Liam Mudge	Date Conducted: 24/06/2020				

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	Description of Use:		Summary of Key Risks: (refer to appropriate subsections)	
	Vacuum Form, device w heating plate to make p malleable allowing ther conformed over an obj the actions of an attack household vacuum clear referred to as Thermofor	plastic sheets n to be ect through ned aner. Process	 Entanglement Impact and cutting Electricity Slips/trips/falls Temperature Hazardous Material Other (dust) 	

2. Documentation

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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 4 AS 4 mag 	NZS 3760:2010 In service safety inspection and testing of electrical equipment 4024. 1100:2019 Safety of machinery 4024. 3403:2018 Safety of machinery, Safety pf packaging machines – Form, fill and seal chines chinery and Equipment Safety- an Introduction. A Handbook for workplaces. Worksafe Victoria.
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** Initial Residual **ENTANGLEMENT** Very Low Long hair, loose clothing, Ensure hair, loose clothing, rags and Low Can anyone's hair, clothing, gloves, cleaning rags, cleaning brushes and jewellery is kept clear of moving parts brushes, tools, rags or other materials become jewellery could become when in use. entangled with moving parts of the plant or entangled in the moving • PPE can be used to restrict loose materials? parts of the equipment. clothing. Y 🛛 N 🗌 • Hair ties/hair nets can be used to secure long hair. Ensure inappropriate jewellery and accessories (e.g. bracelets) are not worn when operating equipment.

IMPACT AND CUTTING INJURIES Can anyone be crushed/cut/struck etc. due to				Hands can be crushed by material tray as it is being released from locks.	Ensure operator's hands and body parts are kept clear of moving parts during use and maintenance.
Material falling off the plant?	Y 🗌 N🛛	Low	Very Low		Ensure work pieces are appropriately
 Uncontrolled/unexpected movement of plant/load? 	Y 🗌 N 🛛				secured prior to operation.

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•	Lack of capacity to slow, stop or immobilize plant?	Y 🛛 N 🗌	Low	Very Low	Ensure operators receive appropriate instruction before attempting to use any equipment.
•	The plant tipping or rolling over?	Y 🗌 N 🛛			•
•	Parts of the plant disintegrating or collapsing?	Y 🛛 N 🗌	Medium	Low	
•	Contact with moving parts during testing, inspection, operation, maintenance, cleaning or repair?	Y 🛛 N 🗌	Medium	Low	
•	Being thrown off or under the plant?	Y 🗌 N 🛛			
•	Contact with sharp or flying objects? (e.g. work pieces being ejected)	Y 🗌 N 🛛	Medium	Low	
•	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
		Initial	Residual		
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 🛛				
ELECTRICITY Can anyone be injured or burnt due to:				Damaged or frayed electrical cords pose an	Operator to check for damaged electrical cords prior to use.
 Live electrical conductors? (e.g. exposed wires) 	Y 🗌 N 🛛			electrical hazard.	Ensure equipment is regularly serviced, tested and tagged (if not hardwired) and appropriate isolation procedures (e.g. lock out tags) are in place.
 Working in close proximity to electrical conductors? 	Y 🗌 N 🛛				

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Hazards Inspected	Risk Assessment		Description of Risk	Control Measures	
Access to electricity?	Y 🗌 N 🛛				
 Damaged or poorly maintained electrical leads, cables or switches? 	Y 🛛 N 🗌	High	Low		
Water near electrical equipment?	Y 🗌 N 🛛				
Lack of isolation procedures?	Y 🗌 N 🛛				
Other	Y 🗌 N 🛛				

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Hazards Inspected		Risk Assessment		Description of Risk	Control Measures
		Initial	Residual		
ERGONOMICS Can anyone be injured due to:				Poor arrangement of the associated equipment.	Ensure adequate room surrounding the Form Box.
Poorly designed workstation?	Y 🛛 N 🗌	Medium	Very Low		Ensure operator is not crowded when working. Ensure bench is stable
Repetitive body movement?	Y 🗌 N 🛛				Ensure workspace is clear of obstacles.
 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 safe access and egress from plant, workflow and design of the workplace) 	Y 🗌 N 🛛				
 Is the location of the plant inappropriate? (Consider potential effects due to environmental conditions and terrain) 	Y 🗌 N 🛛				
Warning – Uncontrolled when printed! The curren	t version of th	nis document	t is kept on the	e Universitv website.	

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Hazards Inspected		Risk Ass	essment	Description of Risk	Control Measures
Other	Y 🗌 N 🔀				

Hazards Inspected		Risk Assessment		Description of Risk	Control Measures
		Initial	Residual		
RADIATIONCan 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 🖾				
Laser Radiation laser sources, such radiation can be extremely hazardous to the eyes and the skin and a number of cases of serious injury, including loss of sight, have been documented.	Y 🗌 N 🛛				

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Hazards Inspected		Risk Ass	essment	Description of Risk	Control Measures
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
		Initial	Residual		
SLIPS/TRIPS/FALLS Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to:				Poor housekeeping practices allowing the build-up of waste materials or failure to	Ensure appropriate cleaning and housekeeping practices are maintained to minimise the risk of a
Uneven, slippery or steep work surfaces?	Y 🗌 N 🖾			immediately clean up spills could result in a slip hazard. Inappropriate placement of objects (e.g. spare materials, bags etc) in the immediate vicinity of the plant equipment may result in a trip hazard.	slip, trip or fall. Workspace inspected and cleared of any debris/ unnecessary objects before and after use. Work space to be kept clear of all obstacles//objects as part of good housekeeping procedures.
Poor housekeeping, e.g. spillage in the vicinity?	Y 🛛 N 🗌	Medium	Low		
Obstacles being placed in the vicinity of the plant?	Y 🛛 N 🗌	Low	Very Low		

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Hazards Inspected		Risk Ass	essment	Description of Risk	Control Measures
 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 🛛				

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		Initial	Residual			
FIRE AND EXPLOSION Can anyone be injured by fire?	Y 🖾 N 🗌	Medium	Low	Ignition of thermoforming material if kept in vicinity of heating element of extended period of time. Scrap material coming into contact with heating element may ignite.	Operator training and induction into safe working practices when using the FormBox. Firefighting equipment available. Operator always present at work station while the FormBox is being used being used. Remove scrap material regularly.	
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 at high or low temperatures?	Y 🛛 N	Medium	Low	Heating element becomes hot.	Operator training and induction into safe working practices when using the FormBox.	

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Can anyone suffer ill-health due to exposure to high or low temperatures?	Y 🗆 N 🛛			Thermoforming material becomes hot and malleable, may come into contact with operator.	Operator always present at work station while the FormBox is being used being used. Bodily access to thermoforming material denied while Formbox in operation.	
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:				Dust and vapours generated from the work process may be hazardous to health.	Ensure appropriate control measures are implemented (e.g. local exhaust system, face masks, good	
Chemicals?	Y 🛛 N				housekeeping practices etc).	
Toxic gases or vapours?	Y 🛛 N			The material used as the active medium can be toxic and/or	Adopt stringent storage, handling	
Fumes/Dusts?		Medium	Low	carcinogenic.	and disposal precautions.	
	Y 🖾 N 🗌				Develop safe work procedures to document storage, handling and disposal requirements	

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Other? (please specify)	Y 🗌 N 🖾					

4. Risk Assessment Signoff						
Authorised By:	Signature:	Date:				

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