

# PLANT - RISK ASSESSMENT FORM

This form is to be used in conjunction with the Environment Health & Safety Procedure. Risk Management.

Location name: Art Workshop, School of Art, VCA		Building No: School of Art	Date: <b>Feb. 2011</b>	Assessed by: Sam	Muratore	Health & Safety Rep.: Sam N	luratore	
Users of the plant: STAFF. S	tudents under direct supervision.	Plant (Manufacture's name & mod	Plant (Manufacture's name & model no): ELECTRIC HOIST DONATI 434C			Serial No.		
Purpose of Plant: HEAVY LII	FTING BY A CHAIN AND HOOK							
	s used: THE HOIST HAS A CONTROL BO BE PULLED ALONG VIA AN OVER HEA		Risk Asses VER. 11.0	sment No. R-36	SOPs No. S-36 VER. 11.0	6 Equipment maintenance No. M-36 VER. 11.0		
		External License:	License or	Certificate Required:				
Does the operator require a L	icense or Competency?	Internal Competency	Other Comp	Other Competency Required:				
		No specific competency	INDUCTION	INDUCTION, TRAINING FOR STAFF AND STUDENTS				
Workplace conditions (Descri	be layout and physical conditions - including	g access and egress) On ground lev	el, two external exist	ts.				
Consider operation outside	of normal conditions	Operations			Control Descri	ption (Current & Proposed)	Туре	
Cleaning     Breakdown & Repair     Commissioning	<ul><li>Non-standard use</li><li>Maintenance</li><li>Decommissioning</li></ul>	- CLEANING - REPAIRS - MAINTENANCE			- Power lockou - Lock doors to		ENG	
List systems at work for us  Training procedure  Manufacturer's information	• SOPs	- TRAINING, INDUCTIONS - SOPs - MAINTENANCE SCHEDULE - INSPECTIONS ISOLATE POWER SUPPLY TO TI - Direct supervision for students.	HE HOIST BY LOCK	ABLE SWITCH.				
the Assessment? • Existing controls	<ul> <li>th the plant operation that may assist in</li> <li>SOPs</li> <li>Incidents &amp; near-hits</li> <li>Incident Investigation</li> </ul>	- TRAINING - EXISTING CONTROLS - SOPs						

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#### **Hierarchy of Control (Type)**

Determine a risk rating by using the Two Variable Risk Matrix or using the Three Variable Risk Score Calculator. Using the Two Variable Risk Matrix, enter the Consequence and Likelihood and the Risk Rating from;

OR Using the Three Variable Risk Score Calculator, enter the Consequence, Exposure and Likelihood and the Risk Rating.

Describe the when and where the hazard is present

Describe the proposed controls. Detail the Type of control from the Hierarchy of Control

EI – Elimination
S – Substitution
En – Engineering
A – Administrative

Is- Isolation
T- Training
G- Guarding
In- Inspection

P - PPE

Can the following items become <b>ENTANGLED</b> with moving parts of the plant, or materials in motion:			Risk Score	Comments (when and where hazard is present)	Туре	Control Description (Current & Proposed)	Action needed
• Hair	Jewellery	• Rags	1	Enternal and art in manifest and the	PPE.	A companying to a lothing	
	Clothing	Other Materials	Low.	Entanglement in moving parts	T	<ul><li>Appropriate clothing.</li><li>Remove loose jewelry</li></ul>	
EMERGENCY STOP Interaction with the pla			Risk Score	Comments (when and where hazard is present)	Type	Control Description (Current & Proposed)	Action needed
Lack of prominence emergency stop	of • Emer	gency stop not being afe					
Emergency stop not in colour		ed energy being released y or at a sequent time					
Lack of clarity of em- stop markings		arting plant by resetting mergency stop button					
Can anyone be CRUS	SHED due to:		Risk Score	Comments (when and where hazard is present)	Туре	Control Description (Current & Proposed)	
Falling, uncontrolled unexpected movement		ack of capacity to slow, top or immobilise the plant					
Falling, uncontrolled unexpected moveme plant's load		Being thrown off	LOW	WHEN MOVING A CRUCIBLE	T IN A	INDUCTION SYSTEM PLANT INSPECTION SCHEDULE MAINTENANCE	
Under or trapped be plant and materials of Structure	or fixed d	Contact with moving parts luring testing, inspection, naintenance, cleaning or epair					
Tipping or rolling over	er • F	Parts of plant collapsing					

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Can anyone be <b>CUT</b> , <b>STABBED</b> or <b>PUNCTURED</b> by Coming in contact with:		Risk Score	Comments (when and where hazard is present)	Type	Control Description (Current & Proposed)	Action needed	
Moving plant or parts	• Worl	c pieces disintegrate					
Sharp or flying objects		er factors not					
Work pieces ejected	Me	ntioned?					
SHEARING – Can anyo	one's body parts b	pe cut off between:	Risk Score	Comments (when and where hazard is present)	Туре	Control Description (Current & Proposed)	
•Two parts of the plant							
A part of the plan and	a work piece or s	tructure?					
Can anyone be injured by ournt due to:	y <b>ELECTRICAL</b> s	hock or	Risk Score	Comments (when and where hazard is present)	Туре	Control Description (Current & Proposed)	
Damaged/poorly maintained leads or switch     Working near or contact with live electrical conductors		h <b>Low</b>	If electrical leads are mistreated or aged.	A -	- Tagging - Weekly inspection		
• Water near electrical e	equipment • Lack	of isolation procedures	s			, , ,	
Can anyone be injured the litems triggered by plant		<b>N</b> of the following	Risk Score	Comments (when and where hazard is present)	Туре	Control Description (Current & Proposed)	Action needed
• Gas • Du	st • Othe	er substances					
• Vapours • Lic	quids						
FRICTION - Can anyone	e be burnt due to:		Risk Score	Comments (when and where hazard is present)	Туре	Control Description (Current & Proposed)	Action needed
Contact with moving p or surfaces of the plan		Il handled by the plant?					
Can anyone be STRUCK	by moving object	ts due to:	Risk Score	Comments (when and where hazard is present)	Туре	Control Description (Current & Proposed)	Action needed
<ul> <li>Plant or work pieces be disintegrated</li> </ul>	eing ejected or	• Mobility					
Uncontrolled or unexpe	ected plant mover	nent • Other factors	?				*

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Can anyone using the plant or in the vicinity of the plant, SLIP, TRIP or FALL due to:		Risk Score	Comments (when and where hazard is present)	Туре	Control Description (Current & Proposed)	Action needed	
The working environment	Uneven work surfaces	• Lack of Guardrails?					
Poor housekeeping	Slippery work surfaces	Other factors?					

HIGH TEMPERATURE OR FIRE – Can anyone:	Risk Score	Comments (when and where hazard is present)	Туре	Control Description (Current & Proposed)	Action needed
Come into contact with objects at high temperature	LOW	WHEN UNLOADING THE FURNACE CRUCIBLE		-FULL REFLECTIVE APRON, LEATHER JACKET, GLOVES, FULL FACE SHIELD AND STEEL CAPPED	
Be injured by fire?	LOW	WHEN ONLOADING THE FORMACE CHOOLDER	T	BOOTS MUST BE WORNINDUCTION SYSTEM	
TEMPERATURE (Thermal Comfort) – Can anyone suffer ill health due to:	Risk Score	Comments (when and where hazard is present)	Туре	Control Description (Current & Proposed)	Action needed
• Exposure to high temperatures?					
Exposure to low temperatures?					
Can anyone come into contact with FLUIDS or GASES under HIGH PRESSURE due to:	Risk Score	Comments (when and where hazard is present)	Туре	Control Description (Current & Proposed)	Action needed
• Failure of the plant?					
Misuse of the plant?					
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Ergonomic (including Manual Handling) - Can anyone be injured due to:		Risk Score	Comments (when and where hazard is present)	Type	Control Description (Current & Proposed)	Action needed	
Seating design		Excessive effort					
Repetitive body mov	ement or posture	Poor lighting					
Lack of consideration     behaviour	n for human	Other factors not mentioned					
Poor workplace or p causing mental or physical st	Ü						
Can anyone be injured or suffer ill health from Exposure to OTHER HAZARDS:		Risk Score	Comments (when and where hazard is present)	Туре	Control Description (Current & Proposed)	Action needed	
Chemicals	• Fumes	• Dusts				- FUME EXTRACTION SYSTEM	
Radiation	Vibration	• Noise	LOW	FUMES FROM THE FURNACE	ENG	- AIR EXCHANGE SYSTEM - AIR CERTAIN SURROUNDS THE FURNACE	
Toxic gases or vapours	Other factor	s not mentioned					
Does the plant general aspects due to:	ate significant <b>ENVI</b> I	RONMENTAL	Risk Score	Comments (when and where hazard is present)	Туре	Control Description (Current & Proposed)	
Energy consumption	Hazardous emissions	Other factors not mentioned					
Water consumption	Nuisance noise	9					
Hazardous waste	• Dust						

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No.	CONCLUSION DRAWN FROM THIS RISK ASSESSMENT	TYPE	PROPOSED CONTROL ACTION	ACTION LIST REF. No.
1	No proposed actions.			
2	Eye protection must be worn (full face shield)	PPE		
3	Appropriate clothing must be worn	PPE		
4	Dust extractor must be switched on whilst operating this equipment.	ENG		
5	Direct supervision	S/Level		
6	Steel capped boots must worn	PPE		
7	Workshop safety inspection.	А		
8	Fume extraction must be operating	ENG		
9				

Determine the person responsible for deciding upon and implementing the proposed controls. Obtain the authorization of the Management Representative. Ensure the HSR (if applicable) has been consulted. Ensure the users of the plant have been consulted.

Person Responsible or Escalated to	Sam Muratore Art Workshop Coordinator.	Proposed	Due Date
Signature of Management Representative		Date	
Signature of HSR		Date	
Signature of User of Plant		Date	

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