

fTitle:	fTitle: Engineering Department			Date of Assessm	ent:	05/04/2016	Risk Ass	sessor:	Ian Warne and Clare Crouch				
Reference Num		nber: RA02			Version Number		6	People involved in making this a			sessment: Ian Warne and Clare Crouch		rne and Clare Crouch
Task/Process: Working in the Engineering Department			ent		People at Risk:	Emp	loyees, visito	rs and conti	actors				
Docun	nents As:	sociat	ed with this I	Risk A	ssessment	Disp	lay S		Form				nd Forklift Trucks, HSF16 d Wellbeing, H&S09 Mental
Review	w Date:	13/1	0/2023	R	Reviewer:	Dan Ca	arver	•			Next Revie	w Date:	13/10/2024
Hazard	d: Manual	Hand	lling F	Risk of	musculoske	letal inju	ıries	from poor manual h	andlir	ng. Risk to er	nployees.		
Contro	ol Measur	es:	<u> </u>			-		•			•		
1. L	ifting equ	ipmen	t provided wh	ere ne	cessary								
2. A	All staff tra	ined i	n manual hand	dling (1	training revie	ewed)							
			vhen required										
								ards and has plenty	of spa	ace and light			
			nd machine ta			ortable h	neigh	nt					
6. lı	nstruction	, infor	mation, trainin	g and	supervision								
	d: Slips ar		os F	Risk of	musculoske	eletal inju	ıries.	Risk to employees	s, visit	ors and contr	actors.		
	ol Measur												
						and trip	haza	ards and has plenty	of spa	ace and light			
<u> </u>	Plan the route and brief all involved of the route												
	Protective shoes to be worn providing slip protection												
	Leads to be kept safe and not cause a trip hazard												
			ent to be clea										
			e kept free fro			regular	ly ch	ecked					
7. H	Instruction, information, training and supervision												



Hazard: Tig Welding		Risk of damage to sight from welding arcs, major burns and lung damage from weld fumes. Risk to employees, visitors and contractors.				
Con	trol Measures:					
1.	1. Welding is carried out in the Welding Room if it is not practical to do so it is carried out behind welding curtains to shield other members of					
	the ultraviolet light	he ultraviolet light				
2.	Welding equipment serv	viced in line with manufacturers guidelines and our maintenance sheets				
3.	LEV in place for weld fu	mes. This is checked monthly and serviced and inspected annually				
4.	Screens and a face shie	Screens and a face shield/mask must be used				
5.	Overalls and gloves mu	Overalls and gloves must be used				
6.	Industry approved weld	Industry approved welding masks are used				
7.	Gas bottles to be stored as per the written instructions					
8.	Operating and Safety In	Operating and Safety Instructions				
9.	Only trained, competen	Only trained, competent and approved staff to use this equipment				
10.	Health Surveillance imp	Health Surveillance implemented				
11.	All welding to be comple	All welding to be completed at least 30 minutes before the end of the department shift				
12.	Welding area to be insp	Welding area to be inspected after 30 minutes to ensure safe.				
13.	Instruction, information, training and supervision					

Haza	ard: Pillar Drills	Risk of hand and eye injuries from rotating parts and ejected materials. Risk to employees.			
Con	Control Measures:				
1.	Machine guards are in place on all pillar drills and checked monthly				
2.	No loose clothing to be worn and long hair to be tied back when operating drills				
3.	Machine isolated when performing maintenance				
4.	Items clamped before drilling				
5.	Appropriate PPE provided – must be used				
6.	Operating and Safety Instructions				
7.	Only trained, competent and approved staff to use this equipment				
8.	Instruction, information, training and supervision				

Haz	zard: Stainless Steel Polishing	Risk of lung damage, eye damage from dust ejected, damage to hearing from noise. Risk to employees.			
Col	Control Measures:				
1.	Majority of polishing only carried out in a dedicated room				



- LEV used to extract dust. This is serviced every year
 Full face fresh air breathing apparatus worn at all times during polishing. This is checked daily for defects. Filters are checked in line with manufacturer's guidelines. This equipment also shields the user's eyes from dust
 Disposable suits or overalls must be worn and regularly changed to eliminate dust transfer from clothes
 Ear protection is provided and must be worn
 Operating and Safety Instructions
 Only trained, competent and approved staff to use this equipment
 Health Surveillance implemented
 Instruction, information, training and supervision
- Hazard: Chop Saws for cutting Aluminium Risk of hand and lower arm injuries, eye damage from blade and materials ejected. Risk to employees.

 Control Measures:

 1. The saws have guards and brakes fitted
 2. No loose clothing to be worn and long hair to be tied back when operating saw
 3. Eye protection worn at all times
 4. Machine isolated when performing maintenance
 5. Operating and Safety Instructions
 6. Only trained, competent and approved staff to use this equipment
 7. Instruction, information, training and supervision

Haz	ard: Bench Grinder	Injuries as a result of coming into contact with grinding wheel or material. Risk to employees.		
Con	Control Measures:			
1.	Machine is guarded			
2.	Machine isolated when performing maintenance			
3.	Eye protection and a mask must be used			
4.	Wheel changing to be undertaken by trained, tested and approved personnel only			
5.	Operating and Safety Instructions			
6.	Only trained, competent and approved staff to use this equipment			
7.	7. Instruction, information, training and supervision			



Haza	Hazard: Hand Tools (including Cordless Drills) Injuries as a result of incorrect use of tools. Risk to employees.			
Con	Control Measures:			
1.	Correct tool to be used for the job			
2.	Visual inspection before use			
3.	PPE provided where necessary			
4.	Operating and Safety Instructions			
5.	Only trained, competent and approved staff to use this equipment			
6.	Instruction, information, training and supervision			

Hazard: Angle Grinder		Injuries as a result of coming in contact with the cutting wheel or materials ejected. Risk to employees.		
Con	Control Measures:			
1.	Angle grinder guarded			
2.	PPE worn at all times when using this equipment			
3.	Operating and Safety Instructions			
4.	Only trained, competent and approved staff to use this equipment			
5.	Instruction, information, training and supervision			

Haza	ard: Fly Press	Head injuries, crushed hands and flying objects. Risk to employees.			
Con	Control Measures:				
1.	Correct equipment to be used on this machine as per the operating instructions				
2.	Operating and Safety Instructions				
3.	Only trained, competent and approved staff to use this equipment				
4.	Instruction, information, training and supervision				

Haza	ard: Manual Chain Hoist Injuries as a result of crushing from falling objects. Risk to employees.			
Con	Control Measures:			
1.	Equipment examined in line with LOLER			
2.	Maximum weight clearly marked			
3.	Operating and Safety Instructions			
4.	Only trained, competent and approved staff to use this equipment			
5.	Instruction, information, training and supervision			



Hazard: Bag Sealer		Minor burns from heat strip, crushed hands. Risk to employees.	
Con	Control Measures:		
1.	Operating and Safety Instructions		
2.	Only trained, competent and approved staff to use this equipment		
3.	Instruction, information, training and supervision		

Hazard: Band Saw		Injuries from cutting blade or materials ejected, crushed hands. Risk to employees.			
Con	Control Measures:				
1.	Machine guards in place				
2.	Machine isolated when perf	Machine isolated when performing maintenance			
3.	Items clamped when cutting	Items clamped when cutting			
4.	Eye protection worn at all times, gloves and mask provided if required				
5.	Operating and Safety Instructions				
6.	Only trained, competent and approved staff to use this equipment				
7.	Instruction, information, training and supervision				

Haza	ard: Lathes	Oil/Coolant penetration. Injuries from the rotating parts and materials ejected. Risk to employees.			
Con	Control Measures:				
1.	Machine isolated when performing maintenance				
2.	Guards in place around chuck				
3.	Eye protection worn at all times				
4.	Old oils disposed of in line w	Old oils disposed of in line with correct procedure			
5.	Operating and Safety Instructions				
6.	Only trained, competent and approved staff to use this equipment				
7.	Wash hands after use				
8.	Instruction, information, training and supervision				

Haza	azard: Linisher/Sander Injuries from coming into contact with sanding belt and materials and dust particles ejected. Risk to employees.		
Con	Control Measures:		
1.	Machine isolated when perfo	orming maintenance	
2.	Eye protection and mask worn at all times, gloves provided if required		
3.	Operating and Safety Instructions		



4.	Only trained, competent and approved staff to use this equipment	
5.	Instruction, information, training and supervision	

Hazard: Tube Bender		Crush injuries, oil absorption and cuts from tubes. Risk to employees.	
Con	Control Measures:		
1.	Daily pre use check		
2.	Monthly checks for safety and maintenance		
3.	Oil Resistant gloves provided		
4.	Operating and Safety Instructions		
5.	Only trained, competent and approved staff to use this equipment		
6.	Wash hands after use		
7.	Instruction, information, training and supervision		

Haza	Oil/Coolant penetration. Risk to employees.		
Con	Control Measures:		
1.	. Machine isolated when performing maintenance		
2.	Guards in place around chuck and checked monthly		
3.	Eye protection worn at all times		
4.	Old oils disposed of in line with correct procedure		
5.	Operating and Safety Instructions		
6.	Only trained, competent and approved staff to use this equipment		
7.	Wash hands after use		
8.	Instruction, information, training and supervision		

Hazard: CNC Machine Hand and eye injuries from rotating parts and ejected material. Risk to employees.			
Con	Control Measures:		
1.	Machine guards are in place on CNC Machine and checked monthly		
2.	No loose clothing to be worn when operating CNC Machine		
3.	Machine isolated when performing maintenance		
4.	Old oils disposed of in line with correct procedure		
5.	Items clamped before commencing any work		
6.	Eye protection worn at all times		
7.	Appropriate PPE provided – must be used		



8.	Operating and Safety Instructions
9.	Only trained, competent and approved staff to use this equipment
10.	Wash hands after use
11.	Instruction, information, training and supervision

Hazard: Weld Cleaner		Irritant to skin, lungs and eyes. Risk to employees.	
Con	Control Measures:		
1.	Wear gloves, goggles and vapor mask		
2.	Operating and Safety Instructions		
3.	Wash hands after use		
4.	Instruction, information, training and supervision		

Hazard: Electricity		Risk of electric shocks and burns.	Electrical faults could lead to fires. Death.	Risk to employees.
Con	Control Measures:			
1.	All sockets have RCD's built in			
2.	Electrical items regularly PAT tested as required			
3.	Fixed wiring inspected every 3 years			
4.	Good housekeeping to ensure leads cannot be damaged			
5.	All faults to be reported to a supervisor/manager immediately			
6.	Personal appliances to be approved before use			
7.	Instruction, information, training and supervision			

Hazard: Noise and Vibration Ris		Risk of damage to hearing and permanent damage to hands and arms (HAVS). Risk to employees.	
Con	Control Measures:		
1.	Low noise and low vibration tooling used where possible		
2.	Planned maintenance for machinery and LEV systems		
3.	Suitable hearing protectors provided for employees and employees trained how to use them.		
4.	Employees trained in risks of noise and vibrations exposure		
5.	Employees trained in system of work to reduce noise and vibration exposure (e.g. suitable feed rates, reduced time on certain jobs etc.)		
6.	Health surveillance implemented		
7.	Instruction, information, training and supervision		



Haza	Hazard: Forklift Trucks Risk of crush injuries, broken bones, impalement and death. Risk to employees, visitors and contractors.				
Con	Control Measures:				
1.	Forklifts to stay within marked areas when possible				
2.	Pedestrians to stay within	marked areas when possible			
3.	All forklifts are fitted with sp	peed limiters (except Combi and Reach)			
4.	Only trained, competent and approved employees to use forklifts				
5.	Forklifts are regularly inspected and maintained (LOLER)				
6.	Horns and flashing beacon	s are fitted as standard			
7.	Pedestrians to take evasive action when horns sounding				
8.	Ensure the working zone is clear from obstacles and trip hazards and has plenty of space and light				
9.	Ensure terrain and weather conditions are suitable				
10.	Driver to ensure load is see	cure, not overweight and correctly loaded			
11.	Refer to FLT02 Pedestrian	Safety Around Forklift Trucks			
12.	Instruction, information, training and supervision.				

Hazard: Fire		Risk of serious or fatal injuries from smoke inhalation, burns or death. Risk to employees, visitors and contactors.		
Con	Control Measures:			
1.	Fire Safety Risk Assessment completed that is linked to the MAPP and COMAH			
2.	Smoke and heat detectors linked to the Fire Alarm			
3.	Marked Fire Escape Routes			
4.	Emergency lighting			
5.	Trained Fire Wardens			
6.	Regular Fire Drills			
7.	Instruction, information, training and supervision			

Haz	Hazard: Display Screen Equipment Risk of musculoskeletal injuries, eye problems and headaches. Risk to employees.		
Con	Control Measures:		
1.	DSE Assessment and appropriate action		
2.	All staff to inform manager/supervisor of any issues		
3.	Instruction, information, training	and supervision	



Hazard: Stress		Risk to mental health. Risk to employees.				
Con	Control Measures:					
1.	Vary the tasks if possible					
2.	Monitor workload					
3.	Control exposure to stressful situations					
4.	One to One discussions					
5.	Open door management and H	R policy				
6.	Refer to RA55 Stress, Mental Health and Wellbeing Risk Assessment					
7.	Refer to H&S 09 Mental Health	and Wellbeing Policy				
8.	Instruction, information, training	and supervision.				
	Assessment.					
Signe	d:					



HOW TO CALCULATE A RISK RATING

SEVERITY

5	10	15	20	25
4	8	12	16	20
3	6	9	12	15
2	4	6	8	10
1	2	3	4	5

Likelihood	Severity	
1 = extremely unlikely	1 = very minor injury	
2 = unlikely	2 = first aid injury	
3 = possible	3 = lost time injury	
4 = likely	4 = hospital treatment	
5 = very probable	5 = disabling injury	

LIKELIHOOD

	LIKELIHOOD	
Risk rating	Action and timescale	
15 and above Unacceptable		
	Work may not start. Additional controls must be	
	introduced to reduce risk rating to below 9.	
9-14 Tolerable		
	Additional controls must be introduced as soon as	
	possible.	
5-8	Tolerable	
	Additional controls may be needed	
4 or below	Acceptable	

1-4 =	Low risk	
6-9 =	Medium risk	
10-25=	High risk	