

SABLE ENTERPRISES

Hazard Identification, Risk Assessment And Risk Control Register (HIRA)

Machines Shop																										
Main Activity	Activities	Sub-Activities	E R / NR	Hazard	Hazard No	Risk	Present control	Legal	Probability	Consequence	Resultant	Risk level	Sig. Hira No.	Priority No.	Objective No.	Additional Controls										
																Operational Control					OCP No	MP No				
																E	S	EC	W	P						
Component washing	operation 70.	Uplift the component from operating tray and load on fixture.	R	1. While uplifting the material component may fall on leg. 2. Hand Injury if table rotated in running cycle.	25	1. Injury to leg. 2. Injury to hand	1. Safety shoes provided. 2. Cycle interlocked with LED Curtain.	-	1	1	1	L	-	-	-	√	-	-	-	-	-	-	-	-	-	-
		Start the cycle for component washing.	R	While washing machine start solvent may fly on face.	26	Injury to eyes and face.	1. Machine cycle interlocked with door closing.	-	1	1	1	L	-	-	-	√	-	-	-	-	-	-	-	-	-	-
		Unloading of component and keeping on operating tray	R	While unload the component may be chances of figure cut.	27	Injury to fingure.	Safety hand gloves provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	-	-	√
Leaktesting	operation 80.	Uplift the component from operating tray and load on fixture.	R	While uplifting the material component may fall on leg.	28	Injury to leg.	Safety shoes provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	-	-	√
		Start the leak testing cycle	R	Figures may caught in between sealing cylinder and component	29	Injury to fingure.	Safety hand gloves provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	-	-	√
		Unloading of component and keeping on trolley	R	While unload the component may be chances of figure cut.	30	Injury to fingure.	Safety hand gloves provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	-	-	√
Component assembly	Component assembly as per drawing.	Assemble component by using child part	R	NIL		NIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BOP pressing as per drawing.	Use of Hydraulic pressing machine	R	Figures may caught in between pressing cylinder and component	31	Injury to fingure.	Two hand switch button provided for clamping.	-	1	1	1	L	-	-	-	√	-	-	-	-	-	-	-	-	-	-
	Use of Child parts for assembly	Use of pneumatic gun for part fitment.	R	NIL		NIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Material removed from box and poly bags		R	NIL		NIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machining	Use of fixture on machine.	Fixture loading and unloading machine.	NR	Fixture may fall.	32	Injury to leg or hand	Fixture lifting trolley provided	-	1	1	1	L	-	-	-	√	-	-	-	-	-	-	-	-	-	-
	Machine cleaning.	Machine cleaning in internal external side.	NR	Operator may fall at working place.	33	Injury to body	Safety shoes provided to avoid sllpage	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	-	-	√
	Use of cutting tools.	Tool replacement.	R	Operators fingure may cut.	34	Injury to fingure.	Safety shoes provided to avoid sllpage	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	-	-	√
R	Routine		P		Probability		RISK LEVEL					L Low		H		High										
NR	Non-routine		C		Consequences							M Medium		E		Emergency										
			Rati ng	POO	Severity of Risk						Ab b	Description				Input For										
					Injury	Ill Health	MATRIX					Elimination	Substitution	Engineering Control	Warnings/Signage/Admin Controls		Personal Protective Equipments									
			1	UNLIKELY	Injury not calling for any first aid treatment	Illness having momentary discomfort	3	3/M	6/H	9/E	S	MP	MP													
			2	LIKELY	Injury calling for first aid treatment	Illness due to acute exposure or hospitalisation for more than 48 hrs.	2	2/L	4/M	6/H	EC	MP	MP													
			3	VERY LIKELY	Injury leading to temporary / permanent disability	Illness due to chronic exposure having last long effect.	1	1/L	2/L	3/M	W	OCP	OCP													
			POO - Probability of Occurrence										1	2	3	P	OCP									

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																	Operational Control										OCP No	MP No		
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Component machining.	Component Material handling	Material handling from machine to machine in cell.	Material shifting from raw casting area to cell, by using trolley.	R	Component may fall on leg.	01	Injury to leg.	Safety shoes provided	-	2	2	4	M	-	-	-	-	-	-	-	-	✓								
				R	While uplifting the material component may fall on leg.	02	Injury to leg.	Safety shoes provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	✓						
	Machining operation 10.	Uplift the component from trolley for machine.	Component loading on fixture and cycle start for machining.	R	While uplifting the component operator has to bend.	03	Back pain.	Lower row of trolley should not be below 1.5 ft.	-	2	2	4	L	-	-	-	-	-	-	-	-	-	-	-	-					
				R	While component loading on fixture figure press in clamp.	04	Injury to figure.	Two hand switch button provided for clamping.	-	1	1	1	L	-	-	-	✓	-	-	-	-	-	-	-	-	-	-			
				R	During facing operation chips may fly towards operator	05	Injury to eyes and face.	Machine cycle interlocked with door closing.	-	1	1	1	L	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-		
				R	While unload the component may be chances of figure cut.	06	Injury to figure.	Safety hand gloves provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	✓					
	Machining operation 20.	Uplift the component from operating tray and load on fixture.	Clamping of component.	R	While uplifting the material component may fall on leg.	07	Injury to leg.	Safety shoes provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	✓						
				R	While component loading on fixture figure press in clamp.	08	Injury to figure.	Two hand switch button provided for clamping.	-	1	1	1	L	-	-	-	✓	-	-	-	-	-	-	-	-	-	-			
				R	During facing operation chips may fly towards operator	09	Injury to eyes and face.	Machine cycle interlocked with door closing.	-	1	1	1	L	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-		
				R	While unload the component may be chances of figure cut.	10	Injury to figure.	Safety hand gloves provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	-	✓				
	Machining operation 30.	Uplift the component from operating tray and load on fixture.	Clamping of component.	R	While uplifting the material component may fall on leg.	11	Injury to leg.	Safety shoes provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	✓						
				R	While component loading on fixture figure press in clamp.	12	Injury to figure.	Two hand switch button provided for clamping.	-	1	1	1	L	-	-	-	✓	-	-	-	-	-	-	-	-	-	-			
				R	Chips fly towards operator	13	Injury to eyes and face.	Machine cycle interlocked with door closing.	-	1	1	1	L	-	-	-	✓	-	-	-	-	-	-	-	-	-	-			
				R	While unload the component may be chances of figure cut.	14	Injury to figure.	Safety hand gloves provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	-	✓				
	Machining operation 40.	Uplift the component from operating tray and load on fixture.	Clamping of component.	R	While uplifting the material component may fall on leg.	15	Injury to leg.	Safety shoes provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	✓						
				R	While component loading on fixture figure press in clamp.	16	Injury to figure.	Safety hand gloves provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	-	✓				
				R	Chips fly towards operator	17	Injury to eyes and face.	Machine cycle interlocked with door closing.	-	1	1	1	L	-	-	-	✓	-	-	-	-	-	-	-	-	-	-			
				R	While unload the component may be chances of figure cut.	18	Injury to figure.	Safety hand gloves provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	-	✓				
	Machining operation 50.	Uplift the component from operating tray and load on fixture.	Clamping of component.	R	While uplifting the material component may fall on leg.	19	Injury to leg.	Safety shoes provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	✓						
				R	While component loading on fixture figure press in clamp.	20	Injury to figure.	Safety hand gloves provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	-	✓				
				R	While unload the component may be chances of figure cut.	21	Injury to figure.	Safety hand gloves provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	-	✓				
				R	While uplifting the material component may fall on leg.	22	Injury to leg.	Safety shoes provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	-	-	✓			
	Machining operation 60.	Uplift the component from operating tray and load on fixture.	Clamping of component.	R	While component loading on fixture figure press in clamp.	23	Injury to figure.	Safety hand gloves provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	✓						
				R	While unload the component may be chances of figure cut.	24	Injury to figure.	Safety hand gloves provided	-	2	2	4	M	-	-	-	-	-	-	-	-	-	-	-	-	✓				

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