

Occupational Health and Safety Baseline

Business/Operating unit:

Date:

Refer to Occupational Health and Safety Risk Assessment

List activity

Hazard Identification

Associated risk

Risk type

What are the possible consequences?

List specific activities to be performed taking into consideration the equipment to be used, the personnel involved in the task.

Anything with potential to cause of harm.
Note: A hazard can pose more than one risk.

A chance that injury , ill health or damage could occur as a result of uncontrolled hazard.

Safety or health

Consider the worse case scenario without controls?

Maintenance of the FFP Plant	Exposure to slippery Surfaces	Falling causing fractures and injuries	Safety	Lost Time Injury.
		Falling resulting in a fatality	Safety	Fatality
	Exposure to chemicals i.e. Sulphur, SO ₂ and SO ₃	Respiratory ailments and skin burns	Health	/occupational disease with permanent consequence

		Skin and eye irritation	Health	occupational disease with reversible/non-permanent effect
	Exposure to falling objects	Struck by objects resulting in injuries	Safety	occupational disease with permanent consequence
		Struck by objects resulting in a fatality	Safety	Fatality

	Exposure to steam and heat	Burns	Safety	Lost Time Injury.
		Excessive sweating, cramps, dehydration, heat exhaustion, shortness of breath and heatstroke.	Health	occupational disease with permanent consequence
	Exposure to moving machinery	Caught between structures that will result in fatal injuries	Safety	Fatality
		Amputations	Safety	Lost Time Injury.

		Lacerations	Safety	Medical treatment case;
	Exposure to x-ray radiation	Fatality	Health	life threatening health effects
		Cancer	Health	occupational disease with permanent consequence
	Exposure to cold weather	Shivering and feeling cold	Health	temporary discomfort case
		Frost bite, flue and hypothermia.	Health	occupational disease with reversible/non-permanent effect

	Exposure to dangerous animals, insects and reptiles	Animal attack, Bee stings and snake bites resulting in a fatality	Safety	Fatality
		Animal attack, Bee stings and snake bites resulting in Injuries	Safety	Lost Time Injury.
	Exposure to electrical cables	Exposure to electricity resulting in fatality	Safety	Fatality
	Exposure to Insufficient lighting	Slips, trips and struck against structures because of poor visibility that will result in injuries.	Safety	Lost Time Injury.
	Exposure to noise	Noise Induced Hearing Loss	Health	occupational disease with permanent consequence

	Exposure to high pressure systems	Release of pressure resulting in a fatality	Safety	Fatality
		Release of pressure resulting in injuries	Safety	Lost Time Injury.
		Release of pressure resulting in property damage.	Safety	Lost Time Injury..
	Exposure to defective lifts	Getting stuck in the lifts resulting in suffocation that can lead to fatalities because of insufficient ventilation.	Health	Fatality

		Getting stuck in the lifts resulting in suffocation that can lead to unconsciousness because of insufficient ventilation.	Health	Medical treatment case;
		Getting stuck in the lifts resulting in being trapped	Safety	No injuries or health effects(near misses)
		Tripping and fall resulting in injuries while using stairs	Safety	Lost Time Injury.

		Excessive walking on stairs because of inoperative lifts resulting in Musculoskeletal disorder: pain on ankles, calf muscles etc.	Health	temporary discomfort case
	Walking on staircases	Tripping and fall resulting in injuries.	Safety	Lost Time Injury.
		Musculoskeletal disorder: pain on ankles, calf muscles etc.	Health	temporary discomfort case

	Exposure to criminal activity	Attack by criminals that could result in a fatality	Safety	Fatality
		Attack by criminals that could result in severe injuries	Safety	Lost Time Injury.
		Attack by criminals that could result in Minor injuries	Safety	Lost Time Injury.
	Exposure to different personalities	Injuries due to attacks by people	Safety	First-aid treatment case,

		Trauma due to attacks by people	Health	temporary discomfort case
	Exposure to bad weather conditions (Natural causes)	Fatality caused by lightning strikes	Safety	Fatality
		Injuries caused by lightning strikes	Safety	Lost Time Injury.
	Exposure to flammable / combustible liquids	Burns	Safety	Lost Time Injury.

		Environmental impact (Damage to grass, soil etc)	Safety	Medical treatment case;
	Working on ladders	Falling causing fractures and injuries	Safety	Lost Time Injury.
		Bruises, headache, etc	Safety	Medical treatment case;

	Usage of tools	Severe injuries that could occur because of using tools.	Safety	Lost Time Injury.
		Cuts, pinch and minor injuries that could occur because of using tools.	Safety	Medical treatment case;
	Working in a ash dust environmet	Exposure to ash dust resulting in respiratory infections	Health	Occupational disease with reversible/non-permanent effect

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The risk assessment template							
					Next Review Date (every 2 years):	Template identifier:	
Authorised by:			Name:		Document identifier		
			Designation:		Revision number:	5	
			Signed:		Revision date:	30-Apr-25	
Risk assessment procedure 32-520							
Existing Controls				Risk Priority Rating		Control Owner	Legal and Other Requirements
Include: - <u>Preventative Controls</u> (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and - <u>Reactive Controls</u> (controls implemented to reduce the immediate impact of the risk occurring) Elimination Substitution Engineering controls Administrative controls Personal protective equipment (PPE)		Consequence	Likelihood		RCE Risk Control Effectiveness	Person allocated the responsibility for implementing the agreed controls	Where relevant, list the relevant legislative and or Eskom requirements that prescribe the control.

1. Defect system to address leaks. 2. Be observant while walking do not run and no horseplay allowed. 3. Continuous risk assessment. Incase of wet surface due to cleaning put a warning safety sign, 4. BSO. 5. Raise awareness through Safety meetings and SHEQ sessions 6. Wear safety shoes with a grip and tied shoe laces while walking on uneven surfaces.	3	A	IV	Fully effective	Line Manager	Construction regulations 27. ISO 45001:2018 Clause 8.1
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1. Plant Maintenance. 2. Maintain good housekeeping where chemical agents are stored. 3. Report chemical plant leaks, store chemicals in designated areas. 4. Put up warning signs. 5. Medical surveillance, 6. Barricade chemical storage. 7. Do weekly BSO. 8. Use required PPE	3	A	IV	Fully effective	Line Manager	HCA 5,6,7,8. GSR 2(3)(a) ISO 45001:2018 Clause 8.1

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1. Install safety nets where possible 2. Report hanging plant components and ensure good housekeeping. 3. Be extra vigilant while doing plant walks. 4. Increase safety inspections. 5. Demarcate working areas where there is a possibility of falling objects/where work is being done above the ground. 6. Conduct Toolbox talks to raise awareness and BSO 7. Wear provided hardhat.	2	B	IV	Fully effective	Line Manager	GSR 2 (3), ISO 45001:2018 Clause 8.1
1. Install safety nets where possible 2. Report hanging plant components and ensure good housekeeping. 3. Be extra vigilant while doing plant walks. 4. Increase safety inspections. 5. Demarcate working areas where there is a possibility of falling objects/where work is being done above the ground. 6. Conduct Toolbox talks to raise awareness and BSO 7. Wear provided hardhat.	2	B	IV	Fully effective	Line Manager	GSR 2 (3), ISO 45001:2018 Clause 8.1

1.The plant is on planned maintenance Programme. 2.Steam leaks are attended as per defect that were reported. 3.Lagging and cladding on pipes 4.Toolbox talks and awareness are held. 5.Short periods are spent on plant. 6.Correct Ppe to be provided (Long sleeved clothing is worn)	2	B	IV	Fully effective	Line Manager	GSR2 (3), ISO 45001:2018 Clause 8.1
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1.Ensure machine guards on equipment are installed. 2.Ensure you have a permit to work 3.Risk assessment is conducted 4.Warning signs are posted. 5.Loose clothing is discouraged while on the plant. 6.Wear the correct P	1	B	IV	Fully effective	Line Manager	General machinery regulations 3, 4, 5, 6, 7, 8, 9. ISO 45001:2018 Clause 8.1
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1.Evacuation of people during radiography. 2.All radioactive activities must be reported to EOD for communication to the station 3.Put on warning signs 4.Have radioactive guards to prevent people from access the area 5.Conduct risk assessment 6.Awareness and BSO	2	B	IV	Fully effective	Line Manager	HBA 4,5,6,7,8,9,10, 11, 12, 13, 14,17. ISO 45001:2018 Clause 8.1
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1.Warm jackets and other warm clothing are issued to employees. 2.Awareness and Toolbox talks 3.BSOs.	2	B	IV	Fully effective	Line Manager	Physical Agents Regulations 3, 6, 7, 8, 9, 15, 17, 18., GSR2 (3), ISO 45001:2018 Clause 8.1
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1. Fumigation is carried out. 2. Call trained snake catchers on site. 3. Awareness provided to employees through safety meetings & SHEQ sessions. 4. Report to EOD if dangerous reptiles are spotted using emergency number communicated to employees on site	3	A	IV	Fully effective	Line Manager	OHSAct sec 8 and 14. ISO 45001:2018 Clause 8.1
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1. Work instructions or procedure to be followed. 2. Provision of training to employees 3. Usage of insulated tools. 4. Conduct task risk assessment 5. PTW System and provision & usage of PPE (Flash suits) 6. Awareness and Toolbox talks, BSO 7. Provision of PPE	3	A	IV	Fully effective	Line Manager	Electrical Installation Regulations 2 AND 5(2 & 3). OHSAct sec 8 and 14. ISO 45001:2018 Clause 8.1
1. Loading the defects on SAP. 2. Place Maintenance contract for lighting. 3. Conduct risk assessment, Tool box talk and BSO 4. Provision of Special/Temporary lighting is provided.	2	B	IV	Fully effective	Line Manager	ISO 45001:2018 Clause 8.1
1. The plant is demarcated as a noise zone. 2. Hearing protection is provided and used. 3. Raise awareness through safety meetings & SHEQ tool box talk. 4. NIHL programme in place or medical surveillance of employees and Noise survey 5. Wear earplugs. Keep spare earplugs	2	B	IV	Fully effective	Line Manager	Noise exposure regulations 4, 5, 6, 7, 8, 9, 10, 11, 12, 13. ISO 45001:2018 Clause 8.1

1.Risk assessments to be conducted prior to work 2.Instal warning signage, area to be barricaded 3.Provision of PPE 4.Awareness and Toolbox talks, BSOSO	2	B	IV	Fully effective	Line Manager	Pressure equipment regulations 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19. ISO 45001:2018 Clause 8.1
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1. Decommission defective lifts. 2. Lifts are on planned maintenance and are being upgraded. 3. Maintain emergency intercom inside the lifts. 4. Medical surveillance, 5. Apply 2-person rule. 6. Do weekly BSO. 7. Raise Awareness through SHEQ session. 8. Verify the competence of the contractor (AIA accreditation).	5	B	II	Mostly effective	Line Manager. Projects manager	Lift,escalators and passenger conveyor regulations 4, 5, 6, 7, 8. ISO 45001:2018 Clause 8.1

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1. Install hand rails along the stairs. 2. Raise Awareness through SHEQ sessions. 3. Sharing of lessons learned on incidents that occurred in other business units in Eskom. 4. Frequent Lifts maintenance. 5. Signage for staircase and advice for 3-point contact. 6. Do weekly BSO 7.Provision of PPE	2	B	III	Fully effective	Line Manager	OHSAct sec 8 and 14. ISO 45001:2018 Clause 8.1
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1. Monitoring of the plant via drooms and instalation of security cameras 2. Ensure that security fence is maintained and always enegized 3. Security to assist with the patrol of the plant inspections. 4. Employees checked for criminal activities / security clearence 5. Awareness and Toolbox talks, BSO.	2	B	IV	Fully effective	Line Manager	Criminal Procedure Act 39, OHSAct sec 8 and 14. ISO 45001:2018 Clause 8.1
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1. All work activities that expose workers to lighting should be stopped when there is lighting or bad weather conditions 2. Conduct risk assessment 3. Medical surveillance 4. Awareness and toolbox talk 5. Provision of correct PPE	1	B	IV	Fully effective	Line Manager	OHSAct sec 8 and 14. ISO 45001:2018 Clause 8.1
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1.The plant is on planned maintenance Programme. 2.Steam leaks are attended as per defect that were reported. 3.Lagging and cladding on pipes 4.Toolbox talks and awareness are held. 5.Conduct risk assessment and PTW 6.Short periods are spent on plant. 7.Correct Ppe to be provided (Long sleeved clothing is worn)	1	B	IV	Fully effective	Line Manager	Construction regulation 10, working at heights procedure 32-418 and Eskom life saving rules. ISO 45001:2018 Clause 8.1
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1. Inspection of tools quarterly regularly or before work 2. Ensure the employees are trained in the correct use of the tools 3. Ensure that tools that needs to be calibrated are done at an manufacture recommendations 4. Awareness and toolbox talk. 5. Conduct risk assessment and BSO 6. Use the correct PPE	2	B	IV	Fully effective	Line Manager	OHSAct Sec 8(1) and 14; GSR2 (3); ISO 45001:2018 Clause 8.1
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1. Ash suppression activities where posible 2. Perform root cause analysis to establish why there are recurring ash leak problems. 4. Improve the ash dump operations and dust cover., 3. Report defects noted in the plant. Plant Maintenance 4. Medical Surveillance. Conduct Toolbox Talks for Awareness. 5. Use of suitable PPE	2	B	IV	Fully effective	Line Manager	HCA 4,5,6,7,8,9,10,11,12, 13,14,15. GSR 2(3)(a), 2B; PSR; OHS Act 85 of 1993 sec 8 & 14, ISO 45001:2018 Clause 8.1. Occupational Health and Safety Incident Management Procedure 32-95

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R	Safety	1	A	Fully effective	I
N	Health	2	B	Mostly effective	II
		3	C	Mostly ineffective	III
		5	E		
		6			