

Health and Safety Baseline risk assessment template

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Health and Safety Risk assessment procedure 32-520

<i>What are the possible consequences ?</i>	<i>Existing Controls</i>		<i>Priority Rating</i>	

Consider the worse case scenario without controls?	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)	Consequence	Likelihood	Risk Prior	RCE Risk Control Effectiveness
musculoskeletal disorder, injuries due to falling, Improper sitting,	ENGINEERING CONTROLS: - None ADMINISTRATIVE CONTROLS: Asset management, Ergonomic survey, Inspections, awareness PPE: -None	3	A	III	Mostly effective
Cuts	ENGINEERING CONTROLS: - None ADMINISTRATIVE CONTROLS: Awareness, incident investigation PPE: -None	2	A	IV	Fully effective

<p>Eye strains and headaches</p>	<p>ENGINEERING CONTROLS: -None ADMINISTRATIVE CONTROLS: Illumination Survey PPE: -None</p>	<p>3</p>	<p>B</p>	<p>III</p>	<p>Mostly effective</p>
<p>Injuries</p>	<p>ENGINEERING CONTROLS: - Trunking method ADMINISTRATIVE CONTROLS: Awareness,raised a defect PPE:None</p>	<p>3</p>	<p>A</p>	<p>III</p>	<p>Mostly effective</p>
<p>Cuts</p>	<p>ENGINEERING CONTROLS: - Ensure that gillotines has a guard ADMINISTRATIVE CONTROLS: Inspections,Safety awareness on how to use gillotines,raised a defect PPE: -None</p>	<p>3</p>	<p>A</p>	<p>IV</p>	<p>Fully effective</p>

Pollution to the environment	<p>ENGINEERING CONTROLS: None</p> <p>ADMINISTRATION CONTROLS: Waste management disposal. waste control sheet to be in place and updated; Supply sufficient bins for separation of waste (E.g. batteries, paper, domestic waste, plastic etc); bins cleaned out daily by cleaning staff.</p>	3	B	III	Mostly effective
burns, death, asphyxiation	<p>ENGINEERING CONTROLS: Muster and evacuation exercises, fire detection in offices, audible fire alarms, earth leakage on electrical boards, no smoking in buildings.</p> <p>ADMINISTRATION CONTROLS: Regular inspections of electrical equipment, SHE rep monthly inspections. PROGRAMME: SHE</p>	3	B	III	Mostly effective
burns	<p>ENGINEERING CONTROLS: None</p> <p>ADMINISTRATION CONTROLS: Take note of the safety instruction on the hydroboil. PM's raised to track previous incidents and situational awareness. PPE : None</p>	3	B	III	Mostly effective

Asbestosis, fatality	<p>ENGINEERING CONTROLS:None</p> <p>ADMINISTRATION CONTROLS:Approved asbestos contractor, approved asbestos plan, train asbestos handlers. Have a guard person controlling access and visitor induction.</p> <p>PPE: Dust mask , hand gloves , full boby coverall</p>	4	A	IV	Fully effective
Injury, damage to machinery	<p>ENGINEERING CONTROLS:None</p> <p>ADMINISTRATION CONTROLS: Risk Assessment charts,no part of any person may pass below a lifted load, barricading of area. Where lifting is taking place,Load test to be done.Inspection. warning signs,</p> <p>PPE: Had hat ,Safety shoes,</p>	4	B	III	Mostly effective
Injury, Fatality	<p>ENGINEERING CONTROLS, Designs controls.isolations, quick release mechanism on lanyards</p> <p>ADMINISTRATION CONTROLS Verification of machine guarding, loose items secured (such as long hair, braids, loose clothing & jewellery), barricading, situational awareness. PPE Safety</p>	4	B	III	Mostly effective

Injury, Fatality	<p>ENGINEERING CONTROLS Rigging study to guide on how to install, remove and operate rigging equipment safely.</p> <p>ADMINISTRATION CONTROLS:Method statement Area properly barricaded with applicable and visible signage</p>	5	C	II	Mostly ineffective
Injury, Fatality	<p>ENGINEERING CONTROLS: None</p> <p>ADMINISTRATION CONTROLS: Risk Assessment, 32-421 (Life saving rules Rules), 32-93 (Vehicle and Driver safety management), 32-456 (Vehicle specifications). Staff driving vehicles to have national driver's license and Eskom driver's evaluation permit. vehicles in</p>	6	B	II	Mostly ineffective
Injury, Fatality	<p>ENGINEERING CONTROLS:Life saving equipment (lifebouy) Safety barriers</p> <p>ADMINISTRATION CONTROLS Plant knowledge,Safety Induction, 2 person rule, warning signs, observations,PPE : None</p>	5	A	III	Mostly effective

<p>Fire, burn injuries, plant damage</p>	<p>-ENGINEERING CONTROLS: Fire detectors - ADMINISTRATIVE CONTROLS:Approved Hot Work permit/ Plan. Area properly barricaded where necessary, fire fighting equipment available. Fire Watchers in</p>	<p>4</p>	<p>C</p>	<p>II</p>	<p>Mostly ineffective</p>
<p>Falling through resulting in injuries</p>	<p>ENGINEERING CONTROLS: Routine maintenance ADMINISTRATIVE CONTROLS: Raise defect,safety awareness PPE: Safety shoes,Hard hat,</p>	<p>4</p>	<p>C</p>	<p>II</p>	<p>Mostly ineffective</p>
<p>Noise Induced Hearing Loss</p>	<p>ENGINEERING CONTROLS: - Silencer installation, greasing of rotating equipment, ADMINISTRATIVE CONTROLS: - Noise monitoring once in two year and on adhoc basis - Periodic Medical Surveillance (Audiometric testing) as per the Hearing Conservation Programme</p>	<p>3</p>	<p>B</p>	<p>III</p>	<p>Mostly effective</p>

Injuries and property damage	<p>ENGINEERING CONTROLS:</p> <ul style="list-style-type: none"> - Design of storage areas ,Secure tools and equipment <p>ADMINISTRATIVE CONTROLS:</p> <ul style="list-style-type: none"> - Adherence to stacking and storage procedure, awareness, inspections, <p>PPE:</p> <ul style="list-style-type: none"> - Head protection with chin strap,safety shoes 	3	C	II	Mostly ineffective
Injuries	<p>ENGINEERING CONTROLS:</p> <ul style="list-style-type: none"> - None <p>ADMINISTRATIVE CONTROLS:</p> <ul style="list-style-type: none"> - barricading, access control <p>PPE:</p> <ul style="list-style-type: none"> - Head protection with chin strap, safety boots 	3	C	II	Mostly ineffective
asphyxiation, suffocation, irritation of respiratory tract, respiratory infection, fatality,	<p>ENGINEERING CONTROLS:</p> <ul style="list-style-type: none"> - chaining of cylinders in upright position, gas detectors mechanism, ventilation process, pipeline <p>ADMINISTRATIVE CONTROLS:</p> <ul style="list-style-type: none"> - Plant maintenance, gas monitoring, signage, access control, alarm response, calibration of sensors 	6	B	II	Mostly ineffective

<p>Injuries, cut by incidents, property damage, bruises</p>	<p>ENGINEERING CONTROLS: cabling technique ADMINISTRATIVE CONTROLS: - loading defects, barricading, signages,housekeeping inspection PPE: - Head protection with chin strap, safety boots</p>	<p>3</p>	<p>B</p>	<p>III</p>	<p>Mostly effective</p>
<p>Injuries</p>	<p>ENGINEERING CONTROLS: SANS Standards,Engineering request,gratting step ADMINISTRATIVE CONTROLS: Painting of the hand rail, awareness, 3 point contact PPE: - Head protection with chin strap, oil resistant safety boots.hand</p>	<p>4</p>	<p>C</p>	<p>II</p>	<p>Mostly ineffective</p>
<p>Stress, Claustrophobia, injuries panic attack,suffocation</p>	<p>ENGINEERING CONTROLS: Lift escalator Standards ADMINISTRATIVE CONTROLS: Routine maintenance, defect system, PPE: - None</p>	<p>3</p>	<p>B</p>	<p>III</p>	<p>Mostly effective</p>

<p>Stress, Claustrophobia, injuries panic attack, suffocation</p>	<p>ENGINEERING CONTROLS: Lagging and glading to protect hot equipment ADMINISTRATIVE CONTROLS: Reducing load, defect system, barricading, notice and signs PPE: - Double ear protection,</p>	<p>6</p>	<p>C</p>	<p>I</p>	<p>Mostly ineffective</p>
<p>Injuries, Property damage, fatalities</p>	<p>ENGINEERING CONTROLS: Load testing, warning siren ADMINISTRATIVE CONTROLS: Authorisation, Inspection records, adherence to speed limit, training and awareness, mandatory headlight on in the plant PPE:</p>	<p>4</p>	<p>C</p>	<p>II</p>	<p>Mostly effective</p>
<p>Cancer, loss of fertility, dizziness, bleeding</p>	<p>ENGINEERING CONTROLS: None ADMINISTRATIVE CONTROLS: dose meters, Reducing load, defect system, barricading, notice and signs, radiation permit, PPE: - None</p>	<p>4</p>	<p>C</p>	<p>II</p>	<p>Mostly effective</p>

<p>Injuries,eye strain,headache</p>	<p>ENGINEERING CONTROLS: Light installation, colour coding ADMINISTRATIVE CONTROLS: Illumination surveys,building standard defect system, cleaning of light covers , portable lights and torches, blinds, routine maintenance PPE:</p>	<p>3</p>	<p>B</p>	<p>III</p>	<p>Mostly effective</p>
<p>Coal workers pneumoconiosis, silicosis, respiratory irritation and respiratory infections.</p>	<p>ENGINEERING CONTROLS: - Wetting and compressing of the coal at the coal stock yard,, ADMINISTRATIVE CONTROLS: coal, signages, defect, quality coal sampling, - Dust monitoring once per year and or on adhoc basis PPE:</p>	<p>3</p>	<p>B</p>	<p>III</p>	<p>Mostly effective</p>
<p>Muscular Skeletal disorder</p>	<p>ENGINEERING CONTROLS: N/A ADMINISTRATIVE CONTROLS:Ergonomic survey,rest period, tripod stand for tools PPE: None</p>	<p>3</p>	<p>A</p>	<p>IV</p>	<p>Fully effective</p>

	<p>ENGINEERING CONTROLS: Confined space to be properly drained and vented. 2 x PTW in force (isolation permit and entry permit), manhole to be locked open on entry permit, staff to enter and exit the confined space via the same point,, observe all warning signs</p> <p>ADMINISTRATIVE</p>	5	B	II	Mostly effective
Fatigue, aggressive behaviour, sleeping disorder	<p>ENGINEERING CONTROLS: None</p> <p>ADMINISTRATIVE CONTROLS: Overtime management, Fatigue management</p> <p>PPE: None</p>	3	C	II	Mostly effective
Shooting due to being hijacked, injuries, Property damage, fatalities	<p>ENGINEERING CONTROLS: Drivecam, Telematic</p> <p>ADMINISTRATIVE CONTROLS: Management of drivecam, Incident investigation and incident recall</p> <p>PPE: None</p>	5	C	II	Mostly effective

