

**Occupational Health and Safety Baseline**

<b>Business/Operating unit:</b>	<b>Asset Management Contractor Baseline Risk Assessment</b>
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<b>Date:</b> 04-May-23	Compiled by: Mangaka Magaoga Noluthando Dondolo Tshegofatso Nnene Irvin Nhlumayo Albert Shai Siphindile Jaxa Leonard Moahloli Dumisa Siko Mokgoba Kganakga Neo Ramonyalioa Bertram Jordaan
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**Refer to Occupational Health and Safety Risk Assessment**

<i>List activity</i>	<i>Hazard Identification</i>	<i>Associated risk</i>	<i>Risk type</i>	<i>What are the possible consequences?</i>
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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. <b>Note:</b> 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?
	Poor road condition	Potholes, lose stones, slippery road, unclear road markings	Safety	vehicle collision with 3rd party/ property damage/ incidents involving pedestrians
	Unroadworthy vehicle	Unserviced vehicles, expired licence disc	Safety	Failure of the vehicle leading to property damage, multiple injuries, fatalities
	Hijackings/Abduction	Hitch hiking, lone driver	Safety	Fatality, Loss of limb, Serious Injuries

Driving to Eskom Sites	Unskilled driver	vehicle collision with 3rd party/ property damage/ incidents involving pedestrians	Safety	Fatality, Loss of limb, Serious Injuries
	Driving on the road where wild/stray animals are prevalent	Collusion with animals, property damage,	Safety	Fatalit, Serious Injuries( contractor employee or wild/stray animals
	Driving in adverse weather conditions	Rain, Floods, Fog ,Mist, Snow, whirl winds, Slippery roads etc.	Safety	Motor vehicle accidents, damage to vehicle, injuries, fatalities
Office Cleaning	Use of vaccum cleaner	Exposure to Noise	Health	Permanent/ impairment hearing loss

		Exposure to dust	Health	Silicosis and lung disease
	Dishwashing	Exposure to hot water	Safety	Burns, Medical injury or Lost Time Injury
		Exposure to sharp objects (broken utensils and Cuttlery)	Safety	Cuts and lacerations, First aid, Medical and Lost Time Injury
Handling and storage Hazardous Chemical Agents (HCA)	Exposure to Hazardous Chemical Agents i.e Carbon monoxide, nitrogen and etc	Inhalations, Skin absorbtion, Contact with eyes	Health	Headaches,Dizziness, Chest pain,eye irritations, Lost time incident, Fatality

	Battery electrolyte	spillage of battery electrolyte	Safety	Battery acids burns, lost time incident
	Hydrolic Oil & Diesel	spillage of Hydrolic Oil and Diesel	Safety	Slip, Trip and Falls, First Aid, Medical or Lost Time Injuries
Working at heights	Working at Heights, Use of step ladder, ceiling climbing & scaffold	Loose steps or rungs; loose nails, screws, bolts or other metal parts; cracked, split, or broken upright, braces, steps or rungs; damaged	Safety	Use of damaged ladder can result in injury or fatality, failure to secure ladder on top or on the bottom can result in employee falling
Manual Handling Activities( Egonomics)	Manual Handling of material & equipment, Incorrect lifting method	Back injuries, muscle strain	Health	Lifting heavy unmanageable materials & equipment can cause back injury

Use of hand tools	Use of damaged tools; no maintenance on tools; use of makeshift unapproved tools	Major cuts, bruises	Safety	Damaged or use of inappropriate tools
Working on electrical components of the generator	Failure of the Automatic Transfer Switch to turn off the generator once power is restored	Electrical shock due to back feeding, caught in betwe	Safety	Burns, Lost Time incidents
	Overload generator	Electrical Fire	Safety	Burns, Lost Time incidents, Fatality
Disconnect the generator	Working on electrical apparatus by an unauthorised persons.	Electric shock, electrocution	Safety	Serious injuries , fatalities/ damage to property

Emergency Preparedness	Lack of awareness of emergency protocol;	Stampede with other employees causing injuries; People not knowing how to evacuate the building in case of emergencu	Safety	Serios injuries
	People not aware of the Fire Suppression System in case of emergencies	asphyxiation	Health	Occupational diseases
Office surroundings	Inadequate lighting	Poor visibility will result in slips, trips and falls; increased rate of accidents - not being able to focus on the activity	safety	Injuries
	Possible exposure to COVID-19	Working in close proximity with a person that has contracted COVID-19	Health	Serious illness

	Ascending or Descending the stairways	Slips, trip & fall	safety	<ol style="list-style-type: none"> <li>1. Not maintaining 3 point contact</li> <li>2. Not holding to handrails</li> <li>3. Slippery stairs</li> <li>4. Defective stairs</li> <li>5. Carrying object that might obstruct the view</li> </ol>
	Use of lifts	Caught in between the doors	safety	<ol style="list-style-type: none"> <li>1. Lift not regular maintained and serviced as per OHS Act requirement</li> <li>2. Malfunctioning of the lift door-sensors not working</li> <li>3. Unavailability of Contract Management in place</li> <li>4. Clothing being trapped in closing door (long dresses, bags, long skirts etc.)</li> </ol>
Conditions in the data and Energy Centre	Exposure to excessive noise	Noise from the machinery - resulting in noise induced hearing loss; disturbance in communication	Health	Noise Induced Hearing Loss
	Use of soldering torches/ hot work equipment - hot work and fire	Burn Injuries	Safety	Burns; First aid injuries; medical injuries; LTI's

Plumbing	Use of / or exposure to substances hazardous to health - sealants/ chemicals	Inhalations, Skin absorption, Contact with eyes	Health	Headaches, Dizziness, Chest pain, eye irritations, Lost time incident, Fatality
	Burning with hot water while doing geyser maintenance, tap repairs or pipe repairs	Water burn injuries	Safety	Burns, Medical injury or Lost Time Injury
	Electrocution	Electrical Shock	Safety	Electrical Burns, Medical injury or Lost Time injury or Fatality
	Ergonomics	Musculoskeletal disorder Neck and backaches	Health	Musculoskeletal disorder Neck and backaches

	Use of high pressure hydraulic pumps	Injuries as a result of use of high pressure hydraulic pumps	Safety	Lacerations, cut. First aid, Medical, Lost Time Injuries.
	Cutting and assembly of pipework and materials	Individuals sustaining injuries from minor to serious as a result of using cutting equipment	Safety	Lacerations, cut. First aid, Medical, Lost Time Injuries.
	Exposure to bio hazards (Sewer pipes, toilets etc.)	Health related illnesses from exposure to bio-hazards	Health	Hepatitis A and or Occupational health diseases
Rigging	Exposure to suspended loads	Exposure to falling objects	safety	Property damage, head injuries, fractures Medical injuries & Lost Time Injuries & Fatality













**ne risk assessment template**

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	Date:		

**k assessment procedure 32-520**

<i>Existing Controls</i>				<i>Control Owner</i>	<i>Legal and Other Requirements</i>
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<p>Include:</p> <ul style="list-style-type: none"> <li>- <u>Preventative Controls</u> (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and</li> <li>- <u>Reactive Controls</u> (controls implemented to reduce the immediate impact of the risk occurring)</li> </ul> <p><b>Elimination</b> <b>Substitution</b> <b>Engineering controls</b> <b>Administrative controls</b> <b>Personal protective equipment (PPE)</b></p>	Consequence	Likelihood	Risk Priority Rating	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.
<p>1) Elimination - not possible due to nature of work 2) Substitution - use alternative routes 3) Engineering - not possible due to nature of work 4) Administrative -: a) Share the identified Travel route risk assement with business partners b) Contractor SHEQ Induction 5) PPE - N/A</p>	5	C	II	Mostly effective	Contract's Manager	Eskom Vehicle Safety Specifications procedure 32-345, National Road Traffic Act 93 of 1996, Substance Abuse Procedure 32-37 Eskom
<p>1) Elimination - Use a roadworthy vehicle 2) Substitution - N/A 3) Engineering - routine servicing of the vehicle 4) Administrative -: a) Vehicle inspections b) Valid licence discs 5) PPE - N/A</p>	5	C	II	Mostly effective	Contract's Manager	Eskom Vehicle Safety Specifications procedure 32-345, National Road Traffic Act 93 of 1996, Substance Abuse Procedure 32-37 Eskom
<p>1) Elimination - not possible due to nature of work 2) Substitution - not possible due to nature of work 3) Engineering - not possible due to nature of work 4) Administrative -: a) Vehicle Safety Campeigns. b) Contractor SHE Induction c) Use of Employee Assistance Program</p>	5	C	II	Mostly effective	Contract's Manager	Eskom Vehicle Safety Specifications procedure 32-345, National Road Traffic Act 93 of 1996, Substance Abuse Procedure 32-37 Eskom

<p>1) Elimination - Only competent person with valid National driver license for the class of vehicle</p> <p>2) Substitution - not possible</p> <p>3) Engineering - not possible</p> <p>4) Administrative -</p> <p>a) Valid National Driver License</p> <p>b) Contractor SHE Induction</p> <p>c) Valid medical fitness certificate</p> <p>5) PPE - N/A</p>	5	C	II	Mostly effective	Contract's Manager	Eskom Vehicle Safety Specifications procedure 32-345, National Road Traffic Act 93 of 1996, Substance Abuse Procedure 32-37 Eskom
<p>1) Elimination - not possible</p> <p>2) Substitution - not possible</p> <p>3) Engineering - not possible</p> <p>4) Administrative -</p> <p>a) Vehicle safety campaign</p> <p>b) Contractor SHE Induction</p> <p>c) Driver and vehicle safety awareness</p> <p>5) PPE - N/A</p>	5	C	II	Mostly effective	Contract's Manager	Eskom Vehicle Safety Specifications procedure 32-345, National Road Traffic Act 93 of 1996, Substance Abuse Procedure 32-37 Eskom
<p>1) Elimination - not possible</p> <p>2) Substitution - not possible</p> <p>3) Engineering - not possible</p> <p>4) Administrative -</p> <p>a) Travel route risk assessment</p> <p>5) PPE - N/A</p>	5	C	II	Mostly effective	Contract's Manager	Eskom Vehicle Safety Specifications procedure 32-345, National Road Traffic Act 93 of 1996, Substance Abuse Procedure 32-37 Eskom
<p>1) Elimination - not possible</p> <p>2) Substitution - not possible</p> <p>3) Engineering - Use silent vacuum cleaner</p> <p>4) Administrative -</p> <p>a) Pre task risk assessment</p> <p>b) Valid medical fitness record</p>	4	B	III	Mostly effective	Contract's Manager	OHS Act, Act 85 of 1993 - Noise Induce Hearing Loss Regulation, SANS 10083 of 2004

<p>1) Elimination - not possible  2) Substitution - not possible  3) Engineering - vacuum dust bag  4) Administrative -  a) Pre task risk assessment  b) Valid medical fitness record  c) Equipment service records  d) Cleaning schedule  5) PPE - Dust mask</p>	5	C	II	Mostly effective	Contract's Manager	OHS Act, Act 85 of 1993 - Hazardous Chemical Agent, Air Quality Act 39 of 2004-National Dust Control Regulation
<p>1) Elimination - not possible  2) Substitution - not possible  3) Engineering - Install hot &amp; Cold Mixer Taps, Install Geysers  4) Administrative - Awareness  a) Pre task risk assessment  b) Valid medical fitness record  c) Induction  5) PPE - Nitrile Gloves</p>	4	B	III	Mostly effective	Contract's Manager	OHS Act, Act 85 of 1993. General Safety Regulations. Facilities Regulations. National Building Regulations
<p>1) Elimination - not possible  2) Substitution - not possible  3) Engineering - Not possible  4) Administrative - Awareness  a) Pre task risk assessment  b) Valid medical fitness record  c) Induction  5) PPE - Nitrile Gloves</p>	4	C	II	Mostly effective	Contract's Manager	OHS Act, Act 85 of 1993. General Safety Regulations. Facilities Regulations. National Building Regulations
<p>1) Elimination - not possible due to nature of work  2) Substitution - not possible due to nature of work  3) Engineering - Installation of HVAC to increase ventilation  4) Administrative -  a) Contractor SHE Induction  b) Limit the exposure or rotation of employees  5) PPE - Respiratory system, Safety goggles</p>	5	C	II	Mostly effective	Contract's Manager	OHS Act, Act 85 of 1993 - Hazardous Chemical Agents Regulation; Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520

<p>1) Elimination - not possible due to nature of work  2) Substitution - not possible due to nature of work  3) Engineering - not possible due to nature of work  4) Administrative -  a) Contractor to use competent person when working on a battery  b) Contractor OHS Induction  5) PPE - Respiratory system, acid resistance overall, apron</p>	4	C	II	Mostly effective	Contract's Manager	OHS Act, Act 85 of 1993 - Hazardous Chemical Agents Regulation; Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-521
<p>1) Elimination - not possible  2) Substitution - not possible  3) Engineering - bund walls built  4) Administrative - awareness  a) signages  b) Contractor OHS Induction  5) PPE - Non slippery safety boots</p>	4	C	II	Mostly effective	Contract's Manager	OHS Act, Act 85 of 1993 - Hazardous Chemical Agents Regulation; Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-522
<p>1) Elimination - not possible due to nature of work  2) Substitution - not possible due to nature of work  3) Engineering - not possible due to nature of work  4) Administrative -  a) Contractor SHE Induction  b) Contractor to provide fall protection plan and risk assessment  c) Contractor provide working at heights training for employees</p>	4	C	II	Mostly effective	Contract's Manager	OHS Act, Act 85 of 1993, General Safety Regulations; Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520, Eskom Working at heights Standard 32-418,
<p>1) Elimination - not possible due to nature of work  2) Substitution - not possible due to nature of work  3) Engineering - not possible due to nature of work  4) Administrative -  a) Contractor SHE Induction  b) Contractor to provide Ergonomic awareness  c) Contractor SHE File evaluation  5) PPE - safety shoes, overalls</p>	4	C	II	Mostly effective	Contract's Manager	OHS Act 85 of 1993, Ergonomics Regulations; Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520;

<p>1) Elimination - not possible due to nature of work  2) Substitution - not possible due to nature of work  3) Engineering - not possible due to nature of work  4) Administrative -  a) Contractor SHE Induction  b) Contractor to provide hand tools inspection checklist  c) Contractor SHE File evaluation  d) Contractor to provide specific training for tools  5) PPE - safety shoes, overalls</p>	2	C	III	Mostly effective	Contract's Manager	OHS Act, Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520
<p>1) Elimination - not possible due to nature of work  2) Substitution - not possible due to nature of work  3) Engineering - not possible due to nature of work  4) Administrative -  a) Contractor SHE Induction  b) Contractor to test of isolation before touching the electrical components  c) Contractor to implement Plant Safety Regulation  5) PPE - safety shoes, acid and fire resistance overalls</p>	5	C	II	Mostly effective	Contract's Manager	OHS Act, Act 85 of 1993; Electrical Machinery Regulations; Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520
<p>1) Elimination - not possible due to nature of work  2) Substitution - not possible due to nature of work  3) Engineering - not possible due to nature of work  4) Administrative -  a) Contractor SHE Induction  b) Contractor to competent fire warden  c) Fire suppression system installed  5) PPE - safety shoes, acid and fire resistance overalls</p>	4	C	II	Mostly effective	Contract's Manager	OHS Act, Act 85 of 1993; Electrical Machinery Regulations; Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-521
<p>1) Elimination - not possible due to nature of work  2) Substitution - not possible due to nature of work  3) Engineering - not possible due to nature of work  4) Administrative -  a) Contractor and Eskom to implement lockout/tagout procedure  b) Contractor to utilise Master Electrician  c) Contractor to implement Plant Safety Regulation  5) PPE - safety shoes, acid and fire resistance overalls</p>	5	C	II	Mostly effective	Contract's Manager	OHS Act Act 85 of 1993, Electrical Machinery Regulations, Electrical Installations Regulation, Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520

<p>1) Elimination - not possible due to nature of work  2) Substitution - not possible due to nature of work  3) Engineering - not possible due to nature of work  4) Administrative -  a) Contractor to follow emergency evacuation procedure  b) Contractor to daily time sheet for employees  c) Contractor to have emergency contact details  5) PPE - N/A</p>	2	C	III	Mostly effective	Contract's Manager	OHS Act, Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520
<p>1) Elimination - not possible due to nature of work  2) Substitution - not possible due to nature of work  3) Engineering - not possible due to nature of work  4) Administrative -  a) Contractor to follow emergency evacuation procedure  b) Contractor to daily time sheet for employees  c) Contractor to have emergency contact details  5) PPE - N/A</p>	4	B	III	Mostly effective	Contract's Manager	OHS Act, Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520, Eskom Emergency Procedure 32-132
<p>1) Elimination - not possible due to nature of work  2) Substitution - not possible due to nature of work  3) Engineering - not possible due to nature of work  4) Administrative -  a) Contractor OHS Induction  b) Contractor to report defect light to SimmerpanHelpdesk  5) PPE - N/A</p>	4	B	III	Mostly effective	Contract's Manager	OHS Act, Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520
<p>1) Elimination - not possible due to nature of work  2) Substitution - not possible due to nature of work  3) Engineering - not possible due to nature of work  4) Administrative -  a) Contractor OHS Induction  b) Contractor to provide Covid-19 Risk Assessment  c) Contractor to provide Covid-19 Management Plan and Policy  5) PPE - N/A</p>	4	B	III	Mostly effective	Contract's Manager	OHS Act 85 of 1993, Health Act 61 of 2003 COVID-19 OHS and Safety Measures in Workplaces; Disaster Management Act, Act 57 of 2002- Declaration of State of Disaster for COVID-19.

1) Elimination - not possible due to nature of work 2) Substitution - not possible due to nature of work 3) Engineering - not possible due to nature of work 4) Administrative - a) Contractor OHS Induction b) Contractor to hold on to hand rails when using stairs c) Contractor to maintain 3 point contact d) Report defect to Simmerpan Helpdesk 5) PPE - N/A	4	C	II	Mostly effective	Contract's Manager	OHS Act, Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520
1) Elimination - not possible due to nature of work 2) Substitution - not possible due to nature of work 3) Engineering - not possible due to nature of work 4) Administrative - a) Covid-19 limitation of 4 persons on the lift b) Hand sanitiser provided next to the lift c) Emergency contact available inside the lift d) Report defect to Simmerpan Helpdesk 5) PPE - N/A	4	B	III	Mostly effective	Contract's Manager	OHS Act, Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520
1) Elimination - not possible due to nature of work 2) Substitution - not possible due to nature of work 3) Engineering - not possible due to nature of work 4) Administrative - a) Contractor OHS Induction d) Noise survey conducted 5) PPE - Hearing protection	4	C	II	Mostly effective	Contract's Manager	OHS Act, Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-521, Noise Induce Hearing Regulation
1) Elimination - not possible due to nature of work 2) Substitution - not possible due to nature of work 3) Engineering - not possible due to nature of work 4) Administrative - a) Contractor OHS Induction & awareness b) Use of competent Welder & Fire Watch c) Fire Fighting equipment 5) PPE - Suitable Welding gear	4	B	III	Mostly effective	Contract's Manager	OHS Act, Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-521, Construction Regulation

1) Elimination - not possible due to nature of work 2) Substitution - not possible due to nature of work 3) Engineering - Installation of HVAC to increase ventilation 4) Administrative - a) Contractor SHE Induction b) Limit the exposure or rotation of employees 5) PPE - Respiratory system, Safety goggles	5	C	II	Mostly effective	Contract's Manager	OHS Act, Act 85 of 1993 - Hazardous Chemical Agents Regulation; Eskom SHEQ policy 32-727,OHS Baseline Risk Assessment 32-520
1) Elimination - not possible 2) Substitution - not possible 3) Engineering - Install hot & Cold Mixer Taps, Install Geysers 4) Administrative - Awareness a) Pre task risk assessment b) Valid medical fitness record c) Induction 5) PPE - Nitrile Gloves	4	B	III	Mostly effective	Contract's Manager	OHS Act, Act 85 of 1993. General Safety Regulations. Facilities Regulations. National Building Regulations
1) Elimination - not possible due to nature of work 2) Substitution - not possible due to nature of work 3) Engineering - not possible due to nature of work 4) Administrative - a) Contractor OHS Induction b) Eskom Life saving rules c) Use of Competent employees (Artisan) 5) PPE - Insulating Gloves	4	B	III	Mostly effective	Contract's Manager	OHS Act, Act 85 of 1993. General Safety Regulations. Facilities Regulations. National Building Regulations, Eskom Life saving rules
1) Elimination - not possible due to nature of work 2) Substitution - not possible due to nature of work 3) Engineering - not possible due to nature of work 4) Administrative - a) Contractor SHE Induction b) Contractor to provide Ergonomic awareness c) Contractor SHE File evaluation 5) PPE - safety shoes, overalls	4	C	II	Mostly effective	Contract's Manager	OHS Ac Act 85 of 1993, Ergonomics Regulations; Eskom SHEQ policy 32-727,OHS Baseline Risk Assessment 32-520;

1) Elimination - not possible due to nature of work 2) Substitution - not possible due to nature of work 3) Engineering - not possible due to nature of work 4) Administrative - a) Contractor OHS Induction d) inspections and maintenance of the pumps 5) PPE - Mechanical gloves	4	C	II	Mostly effective	Contract's Manager	OHS Act 85 of 1993, Driven Machinery Regulations; Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520;
1) Elimination - not possible due to nature of work 2) Substitution - not possible due to nature of work 3) Engineering - not possible due to nature of work 4) Administrative - a) Contractor OHS Induction d) inspections and maintenance of the pumps 5) PPE - Mechanical gloves	4	C	II	Mostly effective	Contract's Manager	OHS Act 85 of 1993, Driven Machinery Regulations; Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520;
1) Elimination - not possible due to nature of work 2) Substitution - not possible due to nature of work 3) Engineering - not possible due to nature of work 4) Administrative - a) Contractor OHS Induction and Awareness b) Medical surveillance 5) PPE - Hearing protection	4	C	II	Mostly effective	Contract's Manager	OHS Act 85 of 1993, Hazardous biological agent Regulations; Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520;
1) Elimination - not possible due to nature of work 2) Substitution - not possible due to nature of work 3) Engineering - not possible due to nature of work 4) Administrative - a) Contractor OHS Induction and Awareness b) Medical surveillance c) Barricade & Signages d) Competent Rigging Team e) Rigging study, SOPs 5) PPE - Hearing protection	5	C	II	Mostly effective	Contract's Manager	OHS Act 85 of 1993, Driven Machinery Regulations; Eskom SHEQ policy 32-727, OHS Baseline Risk Assessment 32-520;















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Consequences						



	2	IV	IV	III	II	II
		A	B	C	D	E

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R	Safety	1	A	Fully effective	I
N	Health	2	B	Mostly effective	II
		3	C	Mostly ineffective	III
		4	D	None	IV
		5	E		
		6			