


Occupational Health and Safety Baseline risk assessment template								
Business/Operating unit:	EMD Maintenance LIGHTING MAINTENANCE CONTRACT					Next Review Date (every 2 years):	Template identifier:	
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Refer to Occupational Health and Safety Risk assessment procedure 32-520								
List activity	Hazard Identification	Associated risk	Risk type	What are the possible consequences?	Existing Controls		Control Owner	Legal and Other Requirements
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?	Include: - Preventative Controls (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and - Reactive Controls (controls implemented to reduce the immediate impact of the risk occurring) Elimination Substitution Engineering controls Administrative controls Personal protective equipment (PPE)	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.
Changing and repairing of lights	Noise	exposed to excessive noise level	Health	Noise induced hearing loss	Hearing protectors have been issued to all employees. The boiler and turbine areas are demarcated as noise zones and wearing of hearing protection is mandatory.	Mostly effective	Manager, supervisor	OHSAct, NIHL Regulations
	Ash dust	Respiratory and lung infections and/or skin and eye irritations.	Health	Respiratory and lung infections and/or skin and eye irritation	The boiler plant is washed with water to reduce the level of ash dust on the plant. The plant is on a regular planned maintenance. Access control (mandatory sign posted), FFP2 dust masks are provided. Employees are wearing long sleeved clothing.	Fully effective	Manager, supervisor	OHSAct, NIHL Regulations
	Coal dust	Inhalation of excessive coal dust	Health	Lung infection that could result with silicosis, eye infection, nasal infection, skin infection	The plant is on a regular planned maintenance. Access control (mandatory sign posted), FFP2 dust masks are provided. Employees are wearing long sleeved clothing.	Mostly effective	Manager, supervisor	OHS Act, Regulations for HCS.
	Acid	Coming in contact with acid or acid spill on the body	Safety	Burns on the skin	Wearing of correct PPE (acid resistant PPE) Observing the PTW system. Awareness is provided.	Mostly effective	Manager, supervisor	OHS Act, Regulations for HCS.
	Uncomfortable position while working	Standing in an awkward position	Health	Musculoskeletal disorder (back, shoulder pains etc.)	Awareness is provided. Stepladder is provided while working in the areas.	Mostly ineffective	Manager, supervisor	OHSAct, ERW2
	Live electrical plant	Coming to contact with live wire	Safety	Electrocution that could result in injuries and/or fatality.	PTW system adhered to. Wearing of PPE (Flash suits) is mandatory. Life saving rules are observed. Insulated tools are used. Insulated rubber mats and gloves are provided and available.	Mostly effective	Manager, Supervisor	OHS Act
	Working on ladders	Falling from the ladder	Safety	Falling that will result in injuries or fatalities.	There is PM for inspection of ladders on monthly basis. Apply two man rule when the ladder is being used. Removal of all defective ladders.	Mostly effective	Manager, supervisor	OHS Act, PSR, OHVR
	Incorrect handling of globes or fluorescent tubes.	Incorrect handling of globes can cause injuries due to cuts that are likely.	Safety	Incorrect handling of globes can cause injuries due to cuts that are likely.	PPE is provided and is worn while working. There is a safe work procedure on changing lights that has been compiled., Awareness on the hazard is provided.	Mostly ineffective	Manager, supervisor	OHS Act
	mercury from the broken globes.	Inhalation to chemicals	Health	Lung infections and ultimately possibility of cancer.	Wearing of the provided PPE. Safe work procedure on changing lights is available.	Mostly ineffective	Manager, supervisor	OHS Act
	heat	working on excessive temperature	Health	Excessive sweating, cramps, dehydration, heat exhaustion and heatstroke.	Water is provided for employees. They also take regular breaks while in the area. Two man rule is applied when on the area. Procedures in place and followed. Employees are rotated.	Mostly effective	Manager, Supervisor	OHS Act, Regulations for HCS.
Driving, Transport employees	Road conditions curves, road construction, road works, bends, steep heels, rail crossings	Unfavourable road conditions , curves, road construction, road works, bends, steep heels, rail crossings causing loss of control of the vehicle	Safety	Loss of control to the vehicle. Not observent of the surroundings. Unfamiliar with the road. Speeding	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training.	Mostly ineffective	Manager	Road traffic act, OHS Act, Vehicle Safety 240-69946, LSR
	Weather condions , Mist/Fog/heavy rain	Unfavourable weather conditions due to Mist/Fog/heavy rain	Safety	Poor visibility and loss of control to the vehicle	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training	Mostly ineffective	Manager	Road traffic act, OHS Act, Vehicle Safety 240-69946, LSR
	Road users, pedestrians and/or stray animals	Unfit road users , vehicles Colliding with pedestrians and/or stray animals	Safety	Loss of control to the vehicles. Driver is negligent or not trained.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training	Mostly ineffective	Manager	Road traffic act, OHS Act, Vehicle Safety 240-69946, LSR
	Driving vehicle while tired	Fatigue	Safety	Loss of control to the vehicle due to fatigue.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training	Mostly ineffective	Manager	OHS Act
Rigging cables	Rigging equipment snapping/rigging point failing	Falling and multiple injuries or fatality	Safety	Falling and multiple injuries or fatalities	PPE is provided and is worn while working. Toolbox talks done on regular basis. Load test certificates of rigging equipment. Inspections of the rigging points	Mostly effective	Manager	OHS Act
	falling objects	Struck by objects resulting in injuries and/or fatalities.	Safety	Struck by objects resulting in injuries and/or fatalities.	Barricading of areas where there is a potential of falling objects. Personal protective equipment is provided.	Mostly ineffective	Manager	OHS Act
Cable joining and termination	Working with cables	Injuries to hands	Safety	Pinches and cuts	Make use of soft gloves. Correct use of PPE. Awareness provided. Toolbox talks are held. Employees are trained on the correct use of tools.	Mostly ineffective	Manager	Road traffic act, OHS Act, Vehicle Safety 240-69946, LSR
Use of stepladder and scaffolding	Working at Heights	Slip and falls	Safety	Falls resulting in injury or fatality	PPE is provided and is worn. Awareness provided. Toolbox talks done on a regular basis. load test certificates of rigging equipment. Inspections of the rigging points.	Mostly effective	Supervisor	OHS Act., PSR
Digging trenches	Dust	Inhalation of excessive dust	Health	Respiratory and lung infections and/or eye irritation	The plant is on a regular planned maintenance programme. Plant is washed with water to reduce the level of ash dust on the plant. Employees are exposed for short periods. Goggles are provided. FFP2 Dust masks are provided.	Mostly ineffective	Manager	OHSAct, Regulations for HCS
	Noise	Exposed to excessive noise level	Health	Noise Induced Hearing Loss	Plant is demarcated as a noise zone. Hearing protection is provided and used. Tool box talks are held.	Mostly effective	Manager	OHSAct, NIHL Regulations.
	Cold weather	Exposed to cold temperature	Health	Exposed	Warm jackets and other warm clothing are issued to employees.	Mostly ineffective	Manager	OHSAct, ERW2