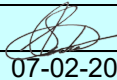


# Maintenance Training Services Provider

Occupational Health and Safety Baseline risk assessment template							
Business/Operating unit:	Kendal Power Station			SOW: Maintenance Training Service Provider		Next Review Date (every 2 years):	Template identifier: 240-70044602
Date: 07-Feb-22				Authorised by:	Name: Maditaba Kubheka	Document identifier	
					Designation: Training Manager	Revision number:	1
					Sign: 	Revision date:	31-May-24
					Date: 07-02-2022		
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. <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?	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)  <b>Elimination</b> <b>Substitution</b> <b>Engineering controls</b> <b>Administrative controls</b> <b>Personal protective equipment (PPE)</b>	Person allocated the responsibility for implementing the agreed controls	Where relevant, list the relevant legislative and or Eskom requirements that prescribe the control.
Driving, Transport Learners, Driver Evaluation	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	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training. Pre inspections, Trip Risk Assessment	Site Manager/Supervisor	Road traffic act, OHS Act. Vehicle Safety 240-69946.
	Weather conditions, Mist/Fog/heavy rain	Unfavourable weather conditions due to Mist/Fog/heavy rain	Safety	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training. Pre inspections, Trip Risk Assessment	Site Manager/Supervisor	Road traffic act, OHS Act. Vehicle Safety 240-69946.
	Road users, pedestrians and/or stray animals	Unfit road users, vehicles Colliding with pedestrians and/or stray animals	Safety	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training. Pre inspections, Trip Risk Assessment	Site Manager/Supervisor	Road traffic act, OHS Act. Vehicle Safety 240-69946.
	Covid19	Coming into contact with someone who is infected with covid, failure to observe covid19 regulation, failure to wear face masks	Health	Lung disease and /or fatalities	Maintain 50% load capacity at all times in all vehicles when travelling for Eskom business, ensure the ventilation is maintained by opening windows where applicable practicable, ensure employees wear cloth face masks, provide sanitizers and daily register is available for tracking purposes	Site Manager/Supervisor	Road traffic act, OHS Act. Vehicle Safety 240-69946. Hazardous Biological Agents, COVID-19 regulations
On Job Training, Job Observation and Inspections (In the plant).	Coal dust	Exposure to excessive coal dust	Health	Lung infection that could result with silicosis, eye infection, nasal infection, skin infection	Plant is washed with water to reduce the level of coal dust on the plant. Plant on regular planned maintenance. Employees are exposed for short periods. Hazard awareness, Medical surveillance, Occupational hygiene surveys Access control (mandatory sign posted), FFP2 & FFP3 Dust masks are provided.	Site Manager/Supervisor	OHSAct sec 13, Hazardous Chemical Substance Regulations, Annexure1,36
	Ash Dust	Exposure to excessive ash dust	Health	Respiratory and lung infections and/or eye irritation	Plant is washed with water to reduce the level of ash dust on the plant. Plant on a regular planned maintenance programme. Employees are exposed for short periods. Hazard awareness, Medical surveillance, Occupational hygiene surveys FFP2 & FFP3 Dust masks are provided. Goggles are provided.	Site Manager/Supervisor	OHSAct, Hazardous Chemical Substance Regulations, Annexure1,36
	Slippery Surfaces	Slips and falls	Safety	injuries and/or fatality.	The plant on a planned maintenance system. Continuous cleaning of plant. Communication (hazard awareness), Guarding/barriers/rails, PPE, including safety shoes and water boots	Site Manager/Supervisor	OHS Act, Environmental Regulations in workplaces Reg 6, General Safety Regulations, 2B
	Electricity	Contact with live plant / cables	Safety	injuries and/or fatality.	PSR/ LAR, plants are demarcated and only authorized personnel can work on electrical components. Hazard awareness /induction training, PPE	Site Manager/Supervisor	OHS Act sec 13, EIR and EMR, Life saving rules 240-62196227, PSR 36-681
	Moving machinery	Caught between moving machinery	Safety	Injuries and/or fatality.	PSR/ LAR, Machine guards on equipment. Plant maintenance notices and signages. Hazard awareness, Loose clothing is discouraged while on the plant.	Site Manager/Supervisor	OHSAct sec8, 13, General Safety Regulations, 2B, General Machinery Regulations, Driven Machinery Regulations
	Heat	Exposure to excessive heat due to radiant heat or steam leaks.	Health	Excessive sweating, cramps, dehydration, heat exhaustion and heatstroke.	PSR/LAR, Lagging and cladding on pipes. Water is provided for employees. They also take regular breaks while in the area. Two man rule is applied when on the plant. Employees spent short periods on the plant. Hazard awareness. Hygiene survey, Guarding/barriers/rails, notices and signage, PPE	Site Manager/Supervisor	OHSAct sec 13, PSR/ LAR, Environmental Regulation for workplace reg 2
	Hot surfaces	Contact with hot surfaces	Safety	Burns (Injury)	Lagging and cladding on pipes. plant on planned maintenance system. Steam leaks are attended as per defect that were reported. Hazard awareness. Hygiene survey, Guarding/barriers/rails, notices and signage, Short periods are spent on plant. PPE, Long sleeved clothing is worn.	Site Manager/Supervisor	OHSAct sec 13, PSR/ LAR, Environmental Regulation for workplace reg 2
	Noise	Exposure to excessive noise	Health	Noise Induced Hearing Loss	Plant is demarcated as a noise zone. Hazard awareness, medical surveillance, Noise Survey, PPE - hearing protection is provided and used.	Site Manager/Supervisor	OHSAct, Noise Induced Hearing loss Regulations, SANS 10083
	Cold weather	Exposure to low temperatures from the outside atmosphere.	Health	Shivering, Frost bite, cold and flu and hypothermia.	Safety awareness, Warm jackets and other warm clothing are issued to employees	Site Manager/Supervisor	OHS Act, Environmental Regulations in workplaces 5
	Insufficient lighting	Slips, trips and knocking against structures because of poor visibility that will result in injuries.	Safety	injuries or fatality	Maintenance contract for lighting. Special/Temporary lighting is provided.	Site Manager/Supervisor	OHSAct, Environmental Regulations for workplace S3
	Falling objects	Getting struck by objects	Safety	injuries and/or fatality.	Hazard awareness, planning and coordination of activities, barricading of areas where there is a potential of falling objects. Personal protective equipment is provided, including hard hat	Site Manager/Supervisor	OHS act sec 13, Environmental Regulations for workplace reg6, General Safety Regulations 2B
	Chemicals	Asphyxiation/ difficulty in breathing	Safety	unconsciousness and death.	Training, PSR Obtaining LAR, Risk Assessment and Awareness	Site Manager/Supervisor	OHSAct, Hazardous Chemical Substance Regulations, Annexure1,36
	Chemicals	Exposure to chemical / inhalation of hazardous chemicals	Health	Respiratory infections that could result in lung diseases.	Training, Obtaining LAR, Risk Assessment, Hazard Awareness, PPE including respirator	Site Manager/Supervisor	OHSAct, Hazardous Chemical Substance Regulations, Annexure1,36
	Steam and heat	Burns injuries	Safety	Burns injuries	The plant insulated, planned maintenance system. Steam leaks are attended as per defect that were reported. Barricading and notices. PPE, Long sleeved clothing is worn.	Site Manager/Supervisor	OHSAct sec8, 13, General Safety Regulations, 2B, General Machinery Regulations, Environmental Regulations in workplaces Reg 5, PSR
	Staircases/ stairways	Tripping and fall	Safety	Tripping and fall resulting in injuries.	Hand rails along the stairs. Toolbox talks are held. Sharing of lessons learned on incidents, Signage for staircase, apply 3 point contact	Site Manager/Supervisor	OHSAct, National building regulations & standards act 103 of 1977 General Safety Regulations, 2B, ERW 9(d)
Elevated positions	Exposure to working on elevated position, falling from elevated position	Safety	Falling, Fracture, injuries and fatality.	Work at heights training, medical fitness, Risk assessment, Life saving rules, risk awareness, Inspection fall arrest equipment, PPE including safety harness	Site Manager/Supervisor	OHS Act, General Safety Regulations reg 6, work at height procedure 32-418	
Conduct Classroom Training, Performing Office, Computer and administrative activities	Objects, materials, structure	Tripping and falling, struck against objects, material, structures	Safety	Injuries	Hazard Awareness, Safety Rep inspection, daily cleaning of offices and classrooms, Good Housekeeping practices encouraged	Site Manager/Supervisor	OHS Act, Environmental Regulations in workplaces Reg 6
	Slippery surfaces	Slips and falls	Safety	Injuries	Some floors are carpeted. Workplace SHE rep inspection, Hazard awareness, good house keeping practices/ immediate cleaning of wet floors, floor slippery warning signs posted.	Site Manager/Supervisor	OHS Act sec 13, Environmental Regulations in workplaces Reg 6
	Ergonomics	Working on the computer for extended period (physical and cognitive ergonomics)	Health	Musculoskeletal disorder: Muscle sprains and strains resulting in back, neck, wrist pains and/or shoulder pains. Mental fatigue, Eye strain. Stress. Anxiety Absenteeism increase	Adjustable Chairs with armrests and back supports are provided, Awareness on ergonomics. Rest when necessary or take a walk or stretch. New computers are adjustable for lighting requirements. Ergonomics surveys & Medical surveillance,	Site Manager/Supervisor	OHS Act, Environmental Regulations in workplaces, Ergonomics regulations 2019
	Poor Illumination	exposure to poorly illuminated work area	Health	Eye strains and headache	The lights are on a maintenance system, defect system to report defective light. Take regular breaks, SHE Rep Inspections	Site Manager/Supervisor	OHS Act, Environmental Regulations in workplaces Reg 3, SANS 10114
	Poor indoor air quality	Unfavourable low and high temperatures	Health	Shivering, cold and flu. Sweating and drowsiness. Headaches, drowsiness, blocked noses.	Air conditioning system provided and maintained. Hazard Awareness, SHE rep inspections	Site Manager/Supervisor	OHS Act, Environmental Regulations in workplaces Reg 5
	Electrical cords.	Tripping and falling over loose lying cords, Electric shock	Safety	Tripping and falls that could result in injuries. electrocution due to electrical contact.	Channel cables away from walkways. Conduct regular safety inspections. Provided awareness and warning signs are posted. Load defect to report and request maintenance / repairs for any defective cables.	Site Manager/Supervisor	OHS Act, Environmental Regulations in workplaces Reg 6, electrical machinery regulations
	Electrical appliances like photo copy machines, shredder, microwave and others.	electrocution, electrical shock	Safety	Electrocution that will result in burns	Planned Maintenance system. Safety inspections, hazards awareness training, Signs and posters display. Reporting and defect system	Site Manager/Supervisor	OHS Act, Environmental Regulations in workplaces Reg 6, electrical machinery regulations
	Paper	cuts from sharp edges of the paper	Safety	cuts/injuries	Hazard awareness	Site Manager/Supervisor	OHS Act, Environmental Regulations in workplaces Reg 6