Occupational Health and Safety Baseline Risk Assessment

Project/Dept.:	Eskom Real Estate: Eskom Academy of Learning			Next Review Date:	16.05.2024
Date: 16.05.2022	Baseline Risk Assessment: Eskom Academy of Learning: LDC Roof Refurbishment Project	Prepared by: Thantaswa Dolonga	Approved by: Functional Manager:	K Chisebe P Moleko	Unique Identifier: 240-130710970 Revision: 1 Revision date: 16.05.2024

Refer to Occupational Health and Safety Risk assessment procedure 32-520

1: List activity	2: Hazard identification		3: Risk identification								4: Assess & Analyse Risks				4: Evaluate Risk						5: Reduce & Eliminate Risk							
	Hazard nr	Hazard Identification	Risk Nr	Associated risk (Risk identification)	Risk type	Exposed groups/employees	Exposure patterns	Cause(s) of the risk	Risk Owner	Conditions(Normal/Abnormal)	What are the Consequences?	Existing Controls	First determine Consequence and then the Likelihood of that Consequence.		Risk Priority Rating	Additional Controls or Tasks Aimed at improving Existing Controls		First determine Consequence and then the Likelihood of that Consequence.		Risk Priority Rating	Monitoring Mechanisms	Control Owner	Legal and Other Requirements	Initial Target Date	Revised Target Date	Current Status	Independent Verification (i.e. Confirmation that the objectives have been met)		Comments
List specific activities to be performed taking into consideration the equipment to be used, the personnel involved in the task.	#	A hazard is anything that is likely to lead to an event that will have an adverse impact on achieving an objective. A hazard can pose more than one risk.	#	A physical event occurs or could occur in relation to the hazard	Safety or health	Who is exposed to the hazard i.e. Employees, visitors, members of the public, etc.	The frequency and duration the person/group is exposed to the hazard e.g. Daily for 3 hrs.	What causes the risk to come into effect?	Who is accountable for making sure the controls and monitors are: - in place - implemented - regularly reviewed for effectiveness.	Indicate Yes or No. Those short-term changes to conditions that could not be reasonably anticipated e.g. Emergencies	What is the expected adverse impact on the objective?	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)	Consequence	Likelihood		RCE Risk Control Effectiveness 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)		Consequence	Likelihood		How we know if we are succeeding. Include comments on effectiveness. This may include i.e. measurements, inspections, supervision where necessary.	Person allocated the responsibility for implementing the agreed controls	Where relevant, list the relevant legislative and or Eskom requirements that prescribe the control.	Once a date has been agreed to, this can not be changed	Used if, for any reason, a Target Date is revised. Use the Comments field to explain.	Pending, In Progress, Complete	Date Done:	By whom:	
Project Execution	1	Physical attacks ,conflicts, high exposure to stress factors, SHEQ related incident/ injuries, motor vehicle accidents.	1.1	Work related or induced stress, Injuries , ill-health, property damage and project delays/schedule disruption.	Safety & Health	Employees, Contractors, Members of the Public	Daily ± 8 Hours	Disagreements , conflicts , Project delays employee complacency and fatigue	General Manager, Principal Contractor, Regional Manager , Project/Facilities Manager, SHEQ Department and Front Line Supervisors	Yes	Missed targets (Poor SHEQ Performance Statistics, Injuries, ill-health)	Procedures , standards , appeal or conflict resolution processes , Adequate rest period.	4	3	II														
	2	Work Acceleration	2.1	Works acceleration, insufficient supervision, insufficient competent personnel performing specific activities. Insufficient general workers and failure to ensure compliance and conformance with Eskom and ERE SHEQ requirements which includes SHE Specification, Eskom Rules, applicable legislations and SANS standards by contractors on site.	Safety & Health/Project Schedule	Contractors; Client	Daily ± 8 Hours	No Supervision from Eskom Project/Facilities Manager & Eskom Engineers (Internal & External) and Site Supervisors in the management of contractors. Poor SHEQ requirements enforcement. Lack of stringent management of contractors on SHEQ compliance. Poor / lack of Supervision, Insufficient Supervision. Taking shortcuts by contractors.	General Manager, Principal Contractor, Regional Manager , Project/Facilities Manager, SHEQ Department and Front Line Supervisors	Yes	Fatality, LTI, Medical treatment, Damage, Financial & Production loss	Eskom Engineers (Internal & External) to ensure compliance for the project lifecycle (during execution & maintenance phases of the project). SHE Specifications, Life saving Rules, Audits, Inspections, BBS, Safety awareness, training and education, Eskom Procedures, SANS requirements. Adequate and visible Supervision, Not compromising SHEQ to finish the works, Additional Supervision & competent personnel and general workers. Issuing of NCRs' and early warnings by Project Manager and site management & supervisory team, PMI by the Project Manager. Adequate & Additional Supervision by the Constructor Supervisors and Foremen. Adequate, Additional & Competent Personnel for all activities	6	5	I														
Dismantling	3	Structure Collapse	3.1	Multiple injuries and fatalities	Safety	Employees, contractors	Daily ± 8 Hours	Poor communication,negligence,no proper signage and barricades	Principal contractor	Yes	Fatality, LTI, Medical treatment, Damage, Financial & Production loss, Project Delays	Currently there are no existing controls.	4	4	I														
	4	Falling Debris	4.1	Injuries.	Safety	Employees, contractors	Daily ± 8 Hours	Improper Method of Statement & awareness.	Principal contractor	Yes	Fatality, LTI, Medical treatment, Damage, Financial & Production loss, Project Delays	Currently there are no existing controls.	5	4	I														
	5	Dust	5.1	Dust inhalation	Health	Employees, contractors and visitors	Daily ± 8 Hours	Improper Method of Statement & awareness. Not wearing PPE	Principal contractor	Yes	Respiratory problems; LTI, Production loss.	Currently there are no existing controls.	4	4	I														
	6	Working at heights	6.1	Fall from heights	Safety	Contractors	Daily ± 8 Hours	High structures, Adverse weather conditions, Slips and Falls, Risk Takers, Inadequate tools and Equipment	Contractor Site Manager, Project Manager, Supervisor	Yes	Fatality, LTI, Medical treatment, Damage, Financial loss, Falling from heights, Production loss	Legislation, Standards & Procedures.	5	4	I														
Civil works	7	Electrical Contact	7.1	Electrocution	Safety	Employees, contractors and visitors	Daily ± 8 Hours	No proper earthling as per Eskom procedures. Isolation of the whole where construction work will be done.	Principal contractor	Yes	Fatality	Currently there are no existing controls.	5	4	I														
	8	Working at heights, no life line installed	8.1	First aid injuries, Medical injuries and fatalities	Safety	Contractors	Daily ± 8 Hours	High structures, Adverse weather conditions, Slips and Falls, Risk Takers, Inadequate tools and Equipment	Contractor Site Manager, Project Manager, Supervisor	Yes	Fatality, LTI, Medical treatment, Damage, Financial loss, Falling from heights, Production loss	Legislation, Standards & Procedures.	5	4	I														
Working with Asbestos containing material	10	Exposed asbestos Fibres	9.1	Inhalation of asbestos fibre	Health	Contractor employees	Daily ± 8 Hours	Lung disease including asbestosis, cancer of the lungs.	Principal contractor	Yes	Claims for occupational diseases ,lost time and fatality	Currently there are no existing controls.	5	4	I														
			9.2	Ingestion of asbestos fibre	Health	Contractor employees	Daily ± 8 Hours	Lung disease including asbestosis, cancer of the lungs.	Principal contractor	Yes	Claims for occupational diseases ,lost time and fatality	Currently there are no existing controls.	5	4	I														
Waste Management	11	Poor general waste management	11.1	Mixing of waste	Safety & Health	Employees, Contractors, Members of the Public , Suppliers	Daily ± 8 Hours	Disposal of Hazardous Chemical Substance with General Waste.	Principal contractor	Yes	Lost Time ,production loss.	Currently there are no existing controls.	1	4	III														
Emergency Plan	12	Emergency Preparedness	12.1	Inadequate Emergency Preparedness, Fire, Bomb Explosions, Natural Disasters, Riots, Fall from heights.	Safety & Health	Employees, Contractors, Members of the Public , Suppliers	Daily ± 8 Hours	No or insufficient training or communication, No Emergency Preparedness Plan, No serviced or fire fighting equipment.	Principal contractor	Yes	Fatality, LTI, Medical treatment, Financial loss, Production loss	Currently there are no existing controls.	5	3	II														
Security	13	Movement of traffic & plant	13.1	MVA	Safety	Employees, Contractors	Daily ± 8 Hours	Inadequate Barricading, Signage, No or insufficient supervision, No checklists	Contractor Site Manager, Facilities Manager, Supervisor	Yes	Fatality, LTI, Medical treatment, Financial loss, Production loss, Property Damage	Currently there are no existing controls.	4	3	II														
	14	Job-site Access Control	14.1	Obstructed Access , inadequate access control	Safety	Employees, Contractors, visitors & Suppliers	Daily ± 8 Hours	Incompetent personnel, No or insufficient barricading or signage, Lack of supervision	Contractor Site Manager, Project Manager, Supervisor	Yes	Fatality, LTI, Medical treatment, Unauthorised access, Financial loss, Legal liability, Production loss	Legislation, Standards & Procedures, Sufficient & Visible Supervision, Planning & designing, Competency & Training, Risk Assessments, Inspections & observations, Signage & barricading, Personnel identification.	5	4	I														
Weather Conditions	15	Adverse Weather Conditions	15.1	Extreme Temperatures, Floods, heavy mist	Safety & Health	Employees, Contractors, visitors & Suppliers	Daily ± 8 Hours	Natural causes	Contractor Site Manager, Project Manager, Supervisor	Yes	Fatality, LTI, Medical treatment, Damage, Financial loss, Product loss, Production loss.	Work stoppage rule, Supervision, Weather monitoring & reporting, Competency & training, Legislation, Standards & procedures.	5	4	I														
Environmental Contraventions	16	Environmental Contravention	16.1	Environmental Impacts and Aspects - (contamination)	Environmental Risk	Contractors, Visitors , Suppliers	Daily ± 8 Hours	Load Spillages, Oil & Fuel Leakages	Contractor Site Manager, Project Manager, Supervisor	Yes	Load Spillages, Oil & Fuel Leakages	Legislation, Standards & Procedures,	1	4	III														
Horticulture	17	Insects & Snakes	17.1	Insects & Snake bites	Health	Contractors, Employees & Visitors	Daily ± 8 Hours	Insect bites	Responsible Managers & all employees	Yes	Medical treatment case	Awareness & Being Vigilant	3	4	IV														
Material / Manual Handling	18	Lack Competency & Training, Improper stacking and Storage of Materials, uneven Ground Conditions	18.1	Pinch Points, Improper Lifting techniques, unsafe loading/ offloading of materials, mushroomed tools	Safety	Employees and Contractor's Employees & Visitors & public	Daily ± 8 Hours	Inferior training provider, Risk Takers	Contractor Site Manager, Project Manager, Supervisor	Yes	LTI		1	4	III														
Working at heights	19	Working at heights	19.1	Fall from heights	Safety	Principle contractor employees	Daily ± 8 Hours	High structures, Adverse weather conditions, Slips and Falls, Risk Takers, Inadequate tools and Equipment. No life line or anchor points on the roof structures.	Principal contractor	Yes	Fatality, Lost Time ,Medical treatment, production loss.	Work at height procedure developed by the Client. Appointed contractor expected to comply to the requirements. Induction will be conducted by the client prior to commencement work. Contractor expected to appoint competent people to work at heights. Supervision while high risk work is being conducted.	5	5	I														
Road Travel on Eskom Business & Traffic Management	20	Roaming animals	20.1	Motor Vehicle Accident	Safety	Employees, Contractors ,Visitors & Animals	Daily ± 8 Hours	Roaming animals on the road, kept on site	Principal Contractor	Yes	Fatality, injury & Damage to property.	Strict speed limit on site. SHEQ Induction. Driver training. Road barriers.	3	5	I														
Road Travel on Eskom Business & Traffic Management	21	Using cell phone while driving	21.1	Motor Vehicle Accident	Safety	Employees and Contractor's Employees & Visitors & public	Daily ± 8 Hours	Texting and talking on the phone while driving	Principal contractor	Yes	Fatality, injury & Damage to property.	Awareness Life saving rules hands-free devices Obtaining Eskom Driver Permit	3	4	II														
Road Travel on Eskom Business & Traffic Management	22	Driving Motor Vehicles	22.1	Motor Vehicle Accident	Safety	Employees and Contractor's Employees & Visitors & public	Daily ± 8 Hours	Substandard and Roadworthy vehicles	Principal contractor	Yes	Fatality, injury & Damage to property.	No driving during heavy hail storms, rainfalls and inclement weathers, Obtaining Eskom Driver Permit Advanced driver training, Trip Planning, abide by Road Traffic Act	3	4	I														
Road Travel on Eskom Business & Traffic Management	23	Driving in adverse weather conditions	23.1	Motor Vehicle Accident	Safety	Employees and Contractor's Employees & Visitors & public	Daily ± 8 Hours	Adverse weather conditions	Principal contractor	Yes	Fatality, injury & Damage to property.	Strict speed limit on site. SHEQ Induction. Driver training. Road barriers.	3	4	I														
Covid-19	24	Infected Persons	24.1	Cross transmission to other persons.	Health	Employees and Contractor's Employees & Visitors & public	Daily ± 8 Hours	Through bad hygiene etiquette, when coughing, blowing nose. Coming into contact with covid-19 droplets on surfaces etc.	Principal contractor	Yes	Wide spread infection & transmission with the Covid-19 viruses to persons. Lost time due to employees being booked off. Fatalities.	Currently there are no existing controls.	5	5	I														