Occupational Health and Safety Baseline risk assessment

Project/Scope:	ELECTRIFICATION	Scope of Risk Assessment:	GAUTENG CLUSTER	Risk Review Date:	Unique Identifier: 420-700000002
Date:	12.12.2025	Prepared by:		Name: Signed:_____ Date:_____	Revision: 0
		Authorised by:			Revision date:

Refer to Occupational Health and Safety Risk assessment procedure 30.005

1. List activity	2. Hazard identification					3. Risk identification				4. Assess & Analyse Risks					5. Evaluate Risk							6. Reduce & Eliminate Risk						
List activity	Hazard no	Hazard identification	Risk no	Exposed people/employees	Risk Owner	Exposure patterns	Associated risk	Risk type	Condition(Normal/abnormal)	Identify/Write risk	Measure the Consequence?	Consequence	Likelihood	Risk Rating Score	Existing Controls	Additional Controls or Tasks Aimed at Improving Existing Controls	Risk Owner Consequence and Likelihood after implementation of Plan	Consequence	Likelihood	Risk Rating Score	Monitoring Mechanisms	Control Owner	Legal and Other Requirements	Initial Target date	Revised Target date	Current Status	Independent Verification (Internal Audit or Supervisor have done visit)	Date Done	By whom	Comments
List specific activities to be performed taking into consideration normal operations, non routine, preventive/ reactive	-	A hazard is anything that is likely to cause an accident or injury or adverse impact on achieving an objective. A hazard can arise from their risk.	-	Who is exposed to the hazard i.e. Employees, contractors, visitors, public, etc.	Who is responsible for leading and the continuous or ongoing management of risks.	The frequency and duration the person(s)/may (exposed to the hazard e.g. Daily 3x/ 8 hrs.	A physical event occurs in relation to the hazard	Safety or health	Indicate how is the Risk Condition: Normal (routine, planned or scheduled) or that could not be scheduled or unplanned Emergency.	What forces the risk to come into effect?	What is the expected adverse impact on the objective?	1	1	1	Indicate: Consequence Control: (Reduce the severity of the adverse hazards or reduce the likelihood of the occurrencing) and/ or Likelihood Control: (Reduce the probability/likelihoodness reduce the immediate impact of the risk occurring)	Add Risk Control Measures	Indicate: Consequence Control: (Reduce the severity of the adverse hazards or reduce the likelihood of the occurrencing) and/ or Likelihood Control: (Reduce the probability/likelihoodness reduce the immediate impact of the risk occurring)	1	1	1	Place an item in the Monitoring Mechanisms column (Frequency) indicate if it requires Management Review, Supervision Work Inspection	Person responsible for implementing the agreed mitigation	Where relevant, list the relevant legislation and or Macro requirements that prescribe the control.	Once a date has been set for implementation, this can not be changed	Insert in the revised target date, if the original target date is not met.	Pending, In Progress, Completed	Indicate if the control has been verified by Internal Audit or Supervisor		
Driving of vehicles	1	Driving on public roads.	1	Exposed people/employees	Company Owner	Daily	Involved in accident	Safety	Normal	Not adhering to the speed limit,Not paying attention, not familiar with the road,making use of cellphone, distractions, exposed to unsafe conditions,Other drivers on the road, Pedestrians and live stock, Taxi and Truck on the road, Cut users negligent driving	Fatalities,Injuries, Property Damage	4	3	12	Staff driving vehicles to have national drivers licence and Rickson driver's evaluation present, vehicles in roadworthy condition, only transport authorised staff on vehicles, Adherence to company rules and drive Cars Discuss in safety meetings	P	To adhere to the existing controls.	4	2	8	Vehicle Inspections	Employee	National Road Safety Act, ERIKOM Processor 32/40 (vehicle and driver safety management); ERIKOM Excavator 50/ 55 (vehicle and driver safety management); ERIKOM Dozer 50/ 55 (vehicle safety and transportation management);, Life saving rules.						
	2	Chase/speeding of vehicles	2	Exposed people/employees	Company Owner	Daily	Risk of personnel being injured by speeding vehicles, Drivers losing control of vehicles, Damaging equip to third parties	Safety	Normal	Not adhering to speed limit by drivers	Fatalities,injuries to driver and pedestrians or property damage	4	3	12	Drivers to adhere to company rules and strictly drive at required speed limits on the premises,Driving assessment and Behavioral assessments,wind drivers period and excess driving permit		Executives to monitor movement of vehicles and ensure compliance to company rules,Speed limit, speeding fines,wind,drivers to be accompanied by Manager/supervisor	1	3	3	Report on speed violations	Employee	Erikom Procedure and National Traffic Regs						
	3	Driving without safety belt buckled up	3	Exposed people/employees	Company Owner	Daily	Severe Injuries when involved in an Accident	Safety	Normal	Not adhering to life saving rules.	Fatality or severe injuries	4	3	12	Life Saving Rules.		Adherence to National Traffic Rules	4	3	12		Employee							
	4	Driving	4	Exposed people/employees	Company Owner	Daily	Vehicle incidents.	Safety	Normal	Not paying attention, risk assessment not done, Not familiar with the road,wet roads, making use of cellphone,Driver fatigue,distractions, Other drivers on the road, Pedestrians and live stock, Taxi and Truck, Pedestrians and live stock, Negligence and wreckless driving	Injuries, Property damage	4	3	12	Staff driving vehicles to have national drivers licence and Rickson driver's evaluation present, vehicles in roadworthy condition, only transport authorised staff on vehicles, Adherence to company rules and drive Cars Discuss in safety meetings	P	To adhere to the existing controls	3	2	6	Incident records.	Employee	National Road Safety Act, ERIKOM Processor 32/40 (vehicle and driver safety management); ERIKOM Excavator 50/ 55 (vehicle and driver safety management);, Life saving rules.						
EXCAVATION by machinery - digging of holes, trenches	6	Diesel fumes and dust	6	Exposed people/employees	Company Owner	Daily	Fine	Safety	ND	Making use of unserviced equipment	Damage to equipment and structures, injuries	4	2	8	Fire fighting equipment available. Regular inspection of equipment, Training of staff	P	Maintain existing controls	2	1	2	Inspection register	Employee	Environmental Regulations for Workplaces 9 and SANS 10400						
	7	Moving machinery eg. Dumping trucks	7	Exposed people/employees	Company Owner	Daily	Staff struck by moving machinery	Safety	ND	Operator of the machine, No Supervision, Inadequate risk assessment	Possible Fatality,Lost time injury and back injuries	4	3	12	Keep safe working space around the machine, Supervision,proper risk assessment and Training of staff	P	Maintain existing controls	3	1	3	Inspection register	Employee	Construction Regulations 21						
	8	Noise	8	Exposed people/employees	Company Owner	Daily	Staff exposed to excessive noise	Health	ND	Operation of the machine	NIHL	4	2	8	Supervision, Training, Hearing protection devices, medical surveillance	P	Maintain existing controls	3	1	3	Supervision Medical Surveillance Measurements	Employee	Noise Induced Hearing Loss Regulations 4(1) and 7(1)						
	9	Excavation	9	Exposed people/employees	Company Owner	Daily	Excavation collapse, Staff falling into excavations, Machine falling into excavation	Safety	ND	No proper supervision, facilitating of excavation, Improper barricadeing	Possible fatalities - Back injuries	5	4	20	Excavator to natural angle of repose - Excavation shored/braced, Sides of excavation fenced off, Supervision	P	Staff to be trained on excavation work, Appointment of Excavation Supervisor	2	1	2	Supervision	Employee	Construction Regulations 11						
	10	Loading / off loading of the machine,	10	Exposed people/employees	Company Owner	Daily	Equipment falling on staff, other equipment	Safety	ND	Inadequate Supervision, Not following safe work procedure, Staff not properly trained, Inadequate risk assessments	Possible property damage/ Injury to staff	4	5	20	Keep safe working space around the machine, Supervision, Training of staff	P	Maintain existing controls	2	1	2	Supervision	Employee	Section 8						
	11	Underground services	11	Exposed people/employees	Company Owner	Daily	Damage to services/ property - Electrocution	Safety	ND	Way Inear not up to date	Possible fatalities - Injury to staff	5	4	20	Way Inear	P	Maintain existing controls	2	1	2	Supervision	Employee	Construction Regulations 11						
	12	Repetitive work	12	Exposed people/employees	Company Owner	Daily	Carpal tunnel syndrome	Health	ND	No Regular breaks	Hand injuries	3	2	6	Regular breaks	P	Maintain existing controls	2	1	2	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
EXCAVATION by Hands - digging of holes, trenches	13	Improper use of hand tools	13	Exposed people/employees	Company Owner	Daily	Damaged hand tools.	Safety	ND	No regular inspection of tools, Incorrect hand tools.	Hand injuries, Broken bones	2	2	4	Safety Talks, Correct PPE for the job, use of correct tools for the job, Tools to be in good condition, "Stop, Look and Listen" approach- Regular inspection of hand tools, PPE	P	Maintain existing controls	2	1	2	Inspection register	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	14	Trenches: collapsing	14	Exposed people/employees	Company Owner	Daily	Injuries	Safety	ND	No Ikeing and shoring of excavation	Lost Time Injuries / Fatalaties	5	4	20	Excavator to natural angle of repose - Excavation shored/braced, Sides of excavation fenced off, Training on excavation work, Supervision.	P	Maintain existing controls, Medical surveillance, Appoint Excavation Supervisor	2	1	2	Regular observations	Employee	Construction Regulations 8 (1)						
	15	Open trenches	15	Exposed people/employees	Company Owner	Daily	Excavation collapse, Staff falling into excavations,	Safety	ND	No proper supervision, facilitating of excavation, Soil structure,	Possible fatalities - Back injuries	5	3	15	Excavator to natural angle of repose - Excavation shored/braced, Sides of excavation fenced off, Training on excavation work, Supervision.	P	Excavation Supervisor, Assistant Supervisor	2	1	2	Inspection, Supervision	Employee	Construction Regulations 11						
	16	Underground services	16	Exposed people/employees	Company Owner	Daily	Damage to services/ property - Electrocution	Safety	ND	Way Inear not up to date	Possible fatalities - Injury to staff	5	4	20	Way Inear	P	Maintain existing controls	2	1	2	Supervision	Employee	Construction Regulations 11						
EXCAVATION by machine - digging of holes, trenches, loading of spoil, breaking	17	Vibration	17	Exposed people/employees	Company Owner	Daily	Hand body vibration	Health	ND	Operation of the machine	Injuries	3	1	3	Rotation of jackhammer operator, Proper lifting technique and training, medical surveillance	P	Maintain existing controls	3	1	3	Inspection, Medical surveillance	Employee	*SAN 10182/ISO 7096/07 and Safety Act, 1993 (Act No. 85 of 1993)						
	18	Flying debris	18	Exposed people/employees	Company Owner	Daily	Lower Respiratory illnesses - Eye injury	Safety	ND	Operation of the machine, Not making use of PPE	Injuries	2	3	6	Eye protection,Q25 Dust masks	P	Maintain existing controls	2	1	2	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	19	Diesel fumes and dust	19	Exposed people/employees	Company Owner	Daily	Air pollution - Lung irritation	Health	ND	Operation of the machine, Not making use of PPE	Injuries	2	3	6	Supervision and regular breaks, dust mask, Proper PPE, proper training and authorisation, medical surveillance	P	Maintain existing controls	3	1	3	Supervision	Employee	Hazardous Chemical Substance Regulations 7						
	20	Fire	20	Exposed people/employees	Company Owner	Daily	Fire	Safety	ND	Making use of unserviced equipment	Damage to equipment and structures, Lost time injury	4	2	8	Fire fighting equipment available - Regular inspection of equipment, Training on the use of the equipment	P	Maintain existing controls	2	1	2	Inspection register	Employee	Environmental Regulations for Workplaces 9 and SANS 10400						
	21	Awkward posture	21	Exposed people/employees	Company Owner	Daily	Back, shoulder neck, feet injuries/discomfort	Safety	ND	No Regular breaks	Injuries	2	2	4	Regular breaks	P	Maintain existing controls	2	1	2	Supervision	Employee	Safety Act, 1993 (Act No. 85 of 1993)						
	22	Underground services	22	Exposed people/employees	Company Owner	Daily	Damage to services/ property - Electrocution	Safety	ND	No proper way Inear, Using incorrect tools	Possible fatalities - Injury to staff	5	2	10	Way Inear	P	Maintain existing controls	2	1	2	Supervision	Employee	Construction Regulations 11						
	23	Noise	23	Exposed people/employees	Company Owner	Daily	Staff exposed to excessive noise	Health	ND	Operation of the machine, Not making use of PPE	NIHL	4	2	8	Supervision, Training, Hearing protection devices, medical surveillance	P	Maintain existing controls	2	1	2	Supervision Medical Surveillance Measurements	Employee	Noise Induced Hearing Loss Regulations 4(1) and 7(1)						
COMPRESSOR (diesel - supply jackhammer with air	24	Hewy lifting	24	Exposed people/employees	Company Owner	Daily	Fatigue, Back, shoulder, neck, foot injuries	Safety	ND	No Regular breaks, Not assisting one another	Lost time injury	4	2	8	Safety Boots, Gloves, Regular breaks, Proper lifting technique and training, medical surveillances	P	Maintain existing controls	2	1	2	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	25	Diesel fumes	25	Exposed people/employees	Company Owner	Daily	Air pollution - Lung irritation	Health	ND	Making use of unserviced equipment	Lost time injury	4	2	8	Supervision and regular breaks, dust mask, Proper PPE, proper training and authorisation, medical surveillance	P	Maintain existing controls	2	1	2	Inspection	Employee	Hazardous Chemical Substance Regulations 7						
	26		26	Exposed people/employees	Company Owner	Daily	Fire	Safety	ND	Faulty equipment, lack of proper maintenance	Damage to equipment and structures, injuries	4	2	8	Fire fighting equipment available - Regular inspection of equipment, Training on the use of the equipment	P	Maintain existing controls	2	1	2	Inspection	Employee	Environmental Regulations for Workplaces 9 and SANS 10400						
	27	Noise	27	Exposed people/employees	Company Owner	Daily	Staff exposed to excessive noise	Health	ND	Operation of the machine	NIHL	4	2	8	Supervision, Training, Hearing protection devices, medical surveillance	P	Maintain existing controls	2	1	2	Supervision Medical Surveillance Measurements	Employee	Noise Induced Hearing Loss Regulations 4(1) and 7(1)						
Generators (petrol): Providing portable power for welding and lighting at night / day Glue	28	Hewy lifting	28	Exposed people/employees	Company Owner	Daily	Fatigue, Back, shoulder, neck, foot injuries	Safety	ND	No Regular breaks, Not assisting one another	Injuries	4	2	8	Safety Boots, Gloves, Regular breaks, Proper lifting technique and training, medical surveillances	P	Maintain existing controls	2	1	2	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	29	Noise	29	Exposed people/employees	Company Owner	Daily	Staff exposed to excessive noise	Health	ND	Operation of the machine	NIHL	4	2	8	Supervision, Training, Hearing protection devices, medical surveillance	P	Maintain existing controls	2	1	2	Supervision Medical Surveillance Measurements	Employee	Noise Induced Hearing Loss Regulations 4(1) and 7(1)						
	30	Vibration	30	Exposed people/employees	Company Owner	Daily	Hand body vibration	Safety	ND	Operation of the machine	Injuries	3	1	3	Rotation of compactor operator, Proper lifting technique and training, medical surveillances	P	Maintain existing controls	3	1	3	Inspection, Medical surveillance	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
Compactors (diesel - petrol) - For compacting sand after laying cables, jointing joints	31	Diesel/Petrol Fumes, Dust	31	Exposed people/employees	Company Owner	Daily	Air pollution - Lung irritation	Health	ND	Making use of unserviced equipment	Lost time injury	4	2	8	Supervision and regular breaks, dust mask, Proper PPE, proper training and authorisation, medical surveillance	P	Maintain existing controls	3	1	3	Inspection	Employee	Hazardous Chemical Substance Regulations 7						
	32		32	Exposed people/employees	Company Owner	Daily	Fire	Safety	ND	Making use of unserviced equipment	Damage to equipment and structures, Lost time injury	4	2	8	Fire fighting equipment available - Regular inspection of equipment, Training on the use of the equipment	P	Maintain existing controls	3	1	3	Inspections	Employee	SANS 9 and SANS 10400						
	33	Awkward posture	33	Exposed people/employees	Company Owner	Daily	Back, shoulder neck, feet injuries/discomfort	Safety	ND	Operation of the machine	Lost time injury	3	2	6	Regular breaks	P	Maintain existing controls	2	1	2	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	34	Flying debris	34	Exposed people/employees	Company Owner	Daily	Lower Respiratory illnesses - Eye injury	Safety	ND	Operation of the machine	Lost time injury	4	3	12	Eye protection, Dust masks	P	Maintain existing controls	2	1	2	Supervision	Employee	Safety Act, 1993 (Act No. 85 of 1993)						
	35	Hewy lifting	35	Exposed people/employees	Company Owner	Daily	Fatigue, Back, shoulder, neck, foot injuries	Safety	ND	Not assisting one another	Lost time injury	4	2	8	Safety Boots, Gloves, Regular breaks, Proper lifting technique and training, medical surveillances	P	Maintain existing controls	2	1	2	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	36	Lifting heavy equipment	36	Exposed people/employees	Company Owner	Daily	Fatigue, Back, shoulder, neck, foot injuries	Safety	ND	Not assisting one another	Lost time injury	4	4	16	Safety Boots, Gloves, Regular breaks, Proper lifting technique and training, medical surveillances	P	Maintain existing controls	2	1	2	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
Electrical Hydraulic and Safety Drilling machine drilling holes	37	Vibration	37	Exposed people/employees	Company Owner	Daily	Hand body vibration	Health	ND	Operation of the machine	Lost time injury	4	1	4	Rotation of operator, Proper lifting technique and training, medical surveillances	P	Maintain existing controls	2	1	2	Supervision, Medical Surveillance	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	38	awkward posture,	38	Exposed people/employees	Company Owner	Daily	Back, shoulder neck, feet injuries/discomfort	Health	ND	No regular breaks	Lost time injury	4	3	12	Regular breaks	P	Maintain existing controls	2	1	2	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	39	Flying debris, Dust	39	Exposed people/employees	Company Owner	Daily	Lower Respiratory illnesses - Eye injury	Safety	ND	Operation of the machine, not using PPE	Lost time injury	4	3	12	Eye protection, Dust masks	P	Maintain existing controls	2	1	2	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	40	Hewy lifting	40	Exposed people/employees	Company Owner	Daily	Fatigue, Back, shoulder, neck, foot injuries	Safety	ND	Not assisting one another	Lost time injury	4	2	8	Safety Boots, Gloves, Regular breaks, Proper lifting technique and training, medical surveillances	P	Maintain existing controls	2	1	2	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	41	Using defective electrical drilling machines	41	Exposed people/employees	Company Owner	Daily	Electrocution	Safety	ND	No supervision, Lack of maintenance, no proper training	Possible fatalities - Lost time injury	5	4	20	Routine maintenance of equipment	P	Maintain existing controls	2	1	2	Supervision, Inspection	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	42	Driving on uneven terrain	42	Exposed people/employees	Company Owner	Daily	Whole-body vibration, vehicle accident,	Health	ND	Driving of vehicles	Possible fatalities - Lost time injury - Damage to vehicle	4	3	12	*Valid drivers licence, Pre and post trip inspections, regular breaks, Life saving rules, Dangerous goods training, Defensive driving, PDP, Driver with a co-driver	P	Maintain existing controls	2	1	2	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	43	Long hours driving	43	Exposed people/employees	Company Owner	Daily	Fatigue, vehicle accident	Safety	ND	No Regular breaks, Maintenance of vehicle, Driving alone	Possible fatalities - Lost time injury - Damage to vehicle	5	3	15	Valid drivers licence, regular rest stops	P	Maintain existing controls	2	1	2	Inspections	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						

Risk	Safety	1	2	3	4
Rev	Health	2	2	4	8
		3	6	9	12
		4	8	12	16

	4	10	15	8	1
					1

Driving of heavy vehicles (Code 10/10/08) for transportation of materials from/onto site by- material handling, Putting of boiler for Zip excavator - AR-K1250 - utility vehicle, transporting of workers, transport for responding to faults,	38	Diesel, Petrol and Oil spills	38	Exposed groups/employees	Company Owner	Daily	Ground, air and water pollution - lung irritation	Health	ND	Lack of proper maintenance	Environmental damage, lost time injury	4	3	15	Pre-trip inspections, Maintanance of vehicle,	P	Maintain existing controls	2	3	15	Inspections	Employee	Hazardous Chemical Substance Regulations, 7						
				Exposed groups/employees	Company Owner	Daily	Fire	Safety	ND	Lack of proper maintenance, Pipe burst, Vehicle accidents	Damage to equipment and structures, Lost time injury	4	2	8	Fire fighting equipment available. Regular inspection of equipment, Training of staff	P	Maintain existing controls	2	1	10	Inspections	Employee	ERW 9 and SANS 10400						
	39	Using Public Roads	39	Exposed groups/employees	Company Owner	Daily	Property damage, Injury to staff	Safety	ND	Not adhering to traffic rules, Fatigue, Distractions, Lack of proper maintenance of vehicles, Not adhering to life-saving rules	Possible fatalities - Lost time injury - Damage to vehicle/property	4	3	9	Valid drivers licence, Pre and post trip inspections, PDP, Life saving rules	P	Maintain existing controls	2	3	15	Incident Inspections/Audits and Annual Audit - Latest	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	40	Defective / broken hand tools	40	Exposed groups/employees	Company Owner	Daily	Hand injuries, cuts and bruises, electrocution, fractures, injuries, Fatalities	Safety	ND	Un-regular inspection of tools, Incorrect hand tools,	Lost time injuries	4	3	15	Medical surveillance, training, regular inspections, PPE	P	Maintain existing controls	2	3	12	Inspections	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
Using of hand tools - day to day tasks	41	Live electricity	41	Exposed groups/employees	Company Owner	Daily	Electrocution	Safety	ND	Incorrect and handling of tools, Improper storage of tools	Possible fatalities - Lost time injury	5	4	1	Proper PPE, Regular testing of equipment, Proper training, medical surveillance, Authorization, Mental alertness and physical ability,	P	Maintain existing controls	2	3	15	Inspections	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	42	Noise	42	Exposed groups/employees	Company Owner	Daily	Staff exposed to excessive noise	Health	ND	Operation of the machine, excessive use of PPE, lack of supervision, no training, obsolete use	NIHL	4	2	24	Supervision, Training, Hearing protection devices, medical surveillance	P	Maintain existing controls	2	3	12	Supervision/ Audits/ Surveillance Measurements	Employee	Noise-Induced Hearing Loss Regulations 9(1) and 7(1)						

Welding using welding machines	43	Welding cewing heat	A1	Exposed group/employees	Company Owner	Daily	Burn wounds		ND	Conducting welding activities	Lost time injury	3	4	8	Wear welding gloves. Wear welding helcwll. Wear welding apron. Only authorized people. Training. Working area is shielded off	P	Maintain existing controls	2	1	2	Supervision, Inspection	Employee	General Safety Regulation 9						
	44	Defective welding machines	A1	Exposed group/employees	Company Owner	Daily	Electrocution	Safety	ND	Lack of proper maintenance	Possible fatalities - Lost time injury	3	4	8	Regular inspections of welding machine, cabling and clamps	P	Maintain existing controls	2	1	2	Supervision, Inspection	Employee	General Safety Regulation 9						
	45	Welding fumes	A5	Exposed group/employees	Company Owner	Daily	Lower Respiratory diseases.		ND	Lack of proper ventilation, not using PPE, Inadequate cooing, Lack of supervision, lack of cleaning	Lost time injury	2	3	6	Work in ventilated area. Medical surveillances on people that uses it regularly. Only authorised operators. Training.	P	Maintain existing controls	2	1	2	Supervision, Inspection	Employee	General Safety Regulation 9						
	46	Damaged power leads and incorrect earthing	A5	Exposed group/employees	Company Owner	Daily	Electrical shock - Burning from hot metals and tools.	Safety	ND	Lack of proper maintenance	Lost time injury	2	4	8	Regular inspections of welding machine, cabling and clamps	P	Maintain existing controls	2	1	2	Supervision, Inspection	Employee	General Safety Regulation 9						
High-voltage cleaning Gelin - 240 Kg 1. Sitting / safety belting and washing of machine and cars on bale. 2. Opening and closing of bale ties. 3. Opening and closing of bale boxes. 4. Inspection of machine and safety 5. Maintenance and light repairs of electrical equipment. 6. Loading and off loading equipment or material (ladders, tool boxes, equipment, bales etc) 7. Climbing of ladders and structures.	47	Walking on uneven tension	A7	Exposed group/employees	Company Owner	Daily	Staff falling/tripping	Safety	ND	Environment	Lost time injury	4	3	12	Obey barricades & sign posting, PPE to be worn, be aware of where you are stepping, clean up spills immediately, Safety talks.	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	48	Awkwaid positions	A8	Exposed group/employees	Company Owner	Daily	Back, shoulder neck, feet injuries/discomfort	Health	ND	No regular breaks	Lost time injury	3	4	12	Regular breaks	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	49	Loading / off- loading of the equipment	A9	Exposed group/employees	Company Owner	Daily	Equipment falling on staff, other equipment	Safety	ND	Not serveice cranes, Inadequate inspection of lifting equipment, incorrect rigging	Possible property damage Injury to staff	4	4	16	Keep safe working space around the machine. Supervision. Training of staff	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						

Low voltage Operating (Under 1000Volts) 1. Switching on/off equipment in substations and on lines 2. Opening and closing of the equipment 3. Inspection of the Lv equipment 4. Maintenance of the fuse makes of electrical equipment 5. Loading and off loading equipment (e .extend ladders, tool boxes, generators etc) 6. Climbing of ladders and scaffolds	61	Awkward positions	61	Exposed groups/employees	Company Owner	Daily	Back, shoulder sack, feet injuries/discomfort	Health	NO	No regular breaks	Lost time injury	4	4	8	Regular breaks	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	62	Working at heights	62	Exposed groups/employees	Company Owner	Daily	Falling from heights	Safety	NO	No proper guard rails around working platforms, Not using Safety harness,	Serious injuries, fatalities,	5	4	9	Safe working platforms, Supervision, Training of staff, Safety harnesses, Medical certificates of fitness	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	63	Working in hot weather conditions	63	Exposed groups/employees	Company Owner	Daily	Staff becoming ill, heat stroke	Health	NO	Sun rays	Lost time injury	4	3	10	Regular breaks, Availability of adequate water	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	64	Working in cold weather conditions	64	Exposed groups/employees	Company Owner	Daily	Staff becoming ill	Health	NO	Cold, Wet weather conditions	Lost time	4	3	10	Regular breaks, PPE	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	65	Faulty electrical equipment	65	Exposed groups/employees	Company Owner	Daily	Electrocution	Safety	NO	Lack of maintenace	Fatalities Fatalities - Lost time injury	5	4	9	Regular service, maintenance and inspection of equipment	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	66	Falling equipment	66	Exposed groups/employees	Company Owner	Daily	Objects falling on staff, other equipment	Safety	NO	Not staying clear of person working overhead	Possible property damage - Injury to staff	5	4	9	Proper PPE, Keep working area underneath operator safe. Proper training, medical surveillance	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	67	Heavy lifting	67	Exposed groups/employees	Company Owner	Daily	Fatigue, Back, shoulder, neck, foot injuries	Health	NO	No Regular breaks, Not stretching out another	Lost time injury	4	5	9	Regular breaks - Safety shoes	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	68	Electrical equipment failure	68	Exposed groups/employees	Company Owner	Daily	Electrocution. Burn wounds. Fire.	Safety	NO	Lack of maintenace	Fatalities Fatalities, Lost time injury	4	5	9	Proper PPE, Regular testing of equipment, Proper training, medical surveillance. Authorisation. Mental alertness and physical ability.	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	69	Hydraulic oil and diesel spills	69	Exposed groups/employees	Company Owner	Daily	Ground, air and water pollution - lung irritation	Health	NO	Lack of maintenace, faulty equipment	Environmental damage, lost time injury	4	3	10	Supervision and regular breaks, dust mask, Proper PPE, proper training and authorisation, medical surveillance	P	Maintain existing controls	2	1	2		Employee	Hazardous Chemical Substance Regulations 7						
				Exposed groups/employees	Company Owner	Daily	Fire	Safety	NO	Lack of maintenace, faulty equipment	Damage to equipment and structures, Lost time injury	4	2	10	Fire fighting equipment available - Regular inspection of equipment - Training of staff	P	Maintain existing controls	2	1	2		Employee	BRW 9 and SANS 10400						
Live work Medium Voltage 11kv - 33kv 1. Switching on/off the electrical equipment 2. Maintenance and fuse Repairs of the electrical equipment 3. Loading and off loading equipment (e .extend ladders, tool boxes, generators etc) 4. Climbing of ladders and scaffolds 5. Working from the hot line aerial device.	70	Unauthorised / unlicensed personnel operating high voltage equipments	70	Exposed groups/employees	Company Owner	Daily	Property/lifting equipment damage, Serious injuries/fatalities to bystanders/employees	Safety	NO	No training, Unauthorised personnel, No Supervision, Not following Safe work procedures	Serious injuries/fatalities, property damage	5	4	9	Supervision, Disciplinary action, Proper training and authorisation	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	71	Noise from the truck	71	Exposed groups/employees	Company Owner	Daily	Staff exposed to excessive noise	Health	NO	Operation of the truck, lack of maintenance of the truck	NIHL	4	2	10	Supervision, Training, Hearing protection devices medical surveillance	P	Maintain existing controls	2	1	2	Supervision Training Surveillance Measurements	Employee	Noise Induced Hearing Loss Regulations 9(1) and 7(1)						
	72	Exclemer hot conditions.	72	Exposed groups/employees	Company Owner	Daily	Staff becoming ill, heat stroke	Health	NO	Sun rays	Lost time injury	4	3	10	Regular breaks, Availability of adequate water	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	73	Live electricity	73	Exposed groups/employees	Company Owner	Daily	Electrocution	Safety	NO	Incorrect and handling of tools, Improper storage of tools	Fatalities Fatalities - Lost time injury	5	4	9	Proper PPE, Regular testing of equipment, Proper training, medical surveillance. Authorisation. Mental alertness and physical ability.	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	74	Diesel fumes and dust	74	Exposed groups/employees	Company Owner	Daily	Air pollution - Lung irritation	Health	NO	Operation of the machine, Not making use of PPE	Lost time injury	4	3	10	Supervision and regular breaks, dust mask, Proper PPE, proper training and authorisation, medical surveillance	P	Maintain existing controls	2	1	2		Employee	Hazardous Chemical Substance Regulations 7						
				Exposed groups/employees	Company Owner	Daily	Fire	Safety	NO	Making use of unserviced equipment	Damage to equipment and structures, Lost time injury	4	2	10	Fire fighting equipment available - Regular inspection of equipment	P	Maintain existing controls	2	1	2		Employee	BRW 9 and SANS 10400						
	75	Loading / off loading of the equipment	75	Exposed groups/employees	Company Owner	Daily	Equipment falling on staff, other equipment	Safety	NO	Not tensioned cranes, Inadequate inspection of lifting equipment, Incorrect rigging	Possible property damage - Injury to Staff	4	4	8	Keep safe working space around the machine, Supervision, Training of staff	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	76	Electrical equipment failure	76	Exposed groups/employees	Company Owner	Daily	Electrocution. Burn wounds. Fire.	Safety	NO	Lack of maintenace	Fatalities Fatalities, Lost time injury	5	4	9	Proper PPE, Regular testing of equipment, Proper training, medical surveillance. Authorisation. Mental alertness and physical ability.	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	77	Electrical contact	77	Exposed groups/employees	Company Owner	Daily	Electrocution	Safety	NO	MAKING CONTACT WITH LIVE EQUIPMENT	Fatalities Fatalities - Lost time injury	5	4	9	Proper PPE, Regular testing of equipment, Proper training, medical surveillance. Authorisation. Mental alertness and physical ability.	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	78	Walking on uneven terrain	78	Exposed groups/employees	Company Owner	Daily	Staff falling/tripping	Safety	NO	Environment	Lost time injury	4	3	10	Obey barricades & sign posting, PPE to be worn, be aware of where you are stepping, clean up spills immediately, Safety talks,	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	79	Working at heights	79	Exposed groups/employees	Company Owner	Daily	Falling from heights	Safety	NO	No proper guard rails around working platforms, Not using Safety harness,	Serious injuries, fatalities,	5	4	9	Safe working platforms, Supervision, Training of staff, Safety harnesses, Medical certificates of fitness	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	80	Faulty electrical equipment	80	Exposed groups/employees	Company Owner	Daily	Electrocution	Safety	NO	Lack of maintenace	Fatalities Fatalities - Lost time injury	5	4	9	Regular service, maintenance and inspection of equipment	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	81	Awkward positions	81	Exposed groups/employees	Company Owner	Daily	Back, shoulder sack, feet injuries/discomfort	Health	NO	No regular breaks	Lost time injury	4	4	8	Regular breaks	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	82	Falling equipment.	82	Exposed groups/employees	Company Owner	Daily	Injury to personnel and property damage	Safety	NO	Not staying clear of person working overhead	Inj	5	4	9		P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	83	Unauthorised personnel operating live work on high voltage equipment.	83	Exposed groups/employees	Company Owner	Daily	Property/lifting equipment damage, Serious injuries/fatalities to bystanders/employees	Safety	NO	No training, Unauthorised personnel, No Supervision, Not following Safe work procedures	Serious injuries/fatalities, property damage	5	4	9	Supervision, Disciplinary action, Proper training and authorisation	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	84	Unauthorised / unlicensed personnel operating high voltage equipment.	84	Exposed groups/employees	Company Owner	Daily	Property/lifting equipment damage, Serious injuries/fatalities to bystanders/employees		NO	No training, Unauthorised personnel, No Supervision, Not following Safe work procedures	Serious injuries/fatalities, property damage	3	5	8	Supervision, Disciplinary action, Proper training and authorisation	P	Maintain existing controls	2	1	2		Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						

Handing, Climbing and walking on ladders	85	Awkward positions	85	Exposed groups/employees	Company Owner	Daily	Back, shoulder neck, feet injuries/discomfort	Health	ND	No regualr breaks	Lost time injury	4	4	8	Regular breaks	P	Maintain existing controls	2	1	2		Employee							
	86	Working at height	86	Exposed groups/employees	Company Owner	Daily	Fatigue, Back, shoulder, neck, foot injuries	Health	ND	No proper guard rails around working platforms, Not using Safety harnesses,	Lost time injury	4	4	8	Regular breaks - Safety shoes	P	Maintain existing controls	2	1	2		Employee	Construction Regulation 8: (Fall Protection Plan); Working at Height Procedure 02-016						
	87	Fall from height	87	Exposed groups/employees	Company Owner	Daily	Fractures, Back, shoulder neck, feet injuries,	Health	ND		Lost time injury	4	4	8	Leather Shoes - Duck Mask - Overall - Safety Boots - Keep working area safe - Proper lifting technique and training - medical surveillances,	P	Maintain existing controls	2	1	2		Employee							
	88	Awkward positions	88	Exposed groups/employees	Company Owner	Daily	Falling objects or personnel falling off scaffold	Safety	ND	No regualr breaks	Serious injuries, fatalities,	5	4	20	Safe working platforms, Supervisor, Training of staff, Safety harnesses, Medical certificates of fitness	P	Maintain existing controls	2	1	2		Employee	Construction Regulation 8: (Fall Protection Plan); Working at Height Procedure 02-016						
Working in the field	89	Insects	89	Exposed groups/employees	Company Owner	Daily	Bee Stings	Health	ND	Bee's in the area	Allergic reactions, Severe pain, Swelling, Dizziness, fainting and possible fatality.	3	3	9	Safety talks, Risk assessment, Situational awareness, Individuals to be aware of their status, Share status to their colleagues, Medical surveillance	P	Maintain existing controls	2	1	2		Employee	OHSACT 8(1) Employer shall provide and maintain, as far as reasonably practicable, a working environment that is safe and without risk to the health of his employees.						
	90	Bit by Snakes	90	Exposed groups/employees	Company Owner	Daily	Snake bites	Safety	ND	Snakes in the area	Shock, fever, fainting, rapid pulse and breathing difficulties and owner used fatality	3	3	9	Call for emergency assistance immediately. While waiting for emergency assistance: Wash the bite with soap and water. Immobilize the bitten area and keep it lower than the heart. Cover the area with a clean, cool, moist bandage. Remove any jewelry or tight clothing. Do not cut the wound. Monitor breathing and heart rate. Remove all rings, watches, and constrictive clothing, in case of swelling. Note the time of the bite so that the EMS personnel can determine when the venom will wear off. Do not apply a tourniquet. Leave snakes alone. Always be aware of your surroundings. Stay out of tall grass unless you wear thick leather boots and long pants. Don't put your hands or feet into holes or places you can't see. Do any expected to by and note what the snake looked like (colour, size etc)… to assist Medical Services or treating physician to establish what anti-venom to administer.	P	Maintain existing controls	2	1	2		Employee	OHSACT 8(1) Employer shall provide and maintain, as far as reasonably practicable, a working environment that is safe and without risk to the health of his employees.						
	91	Wet or slippery or uneven surfaces	91	Exposed groups/employees	Company Owner	Daily	Slipping on wet floors or uneven surfaces	Safety	ND	Weather conditions	Injury	4	3	9	Obey barricades & sign posting, PPE to be wear, be aware of where you are stepping, clean up spills immediately, Safety talks,		Maintain existing controls	2	1	2		Employee							
	92	Uncontrolled usage	92	Exposed groups/employees	Company Owner	Daily	Injuries - Cuts, burnet & wounds	Safety	ND	Failure to correctly operate, Inspections and not wearing correct PPE	LTI or Medical	4	2	8	Use equipment as per safe working instructions, Wear correct PPE	P	Maintain existing controls, On Job Observations	1	1	1	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
USING PORTABLE ELECTRICAL TOOLS	93	Damaged cords & equipment	93	Exposed groups/employees	Company Owner	Daily	Electrical shocks	Safety	ND	No proper maintenance & inspections.	Fatality, LTI or Medical	5	3	15	Periodical Inspections & Maintenance	P	Maintain existing controls	1	1	1	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	94	Using non-calibrated tools	94	Exposed groups/employees	Company Owner	Daily	Damaging Equipment, Injuries	Safety	ND	Will calibrating equipment on time as per schedule or due date		5	3	15	Periodical Inspections & Maintenance	P	Maintain existing controls	1	1	1	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	95	Relaxing and reusing Machines	95	Exposed groups/employees	Company Owner	Daily	Damaging Equipment, Injuries	Safety	ND	Failure to correctly operate and not wearing correct PPE	LTI or Medical	4	3	8	Use equipment as per safe working instructions, Wear correct PPE	P	Maintain existing controls	1	1	1	Supervision	Employee	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)						
	96	Physical material handling	96	Exposed groups/employees	Company Owner	Daily	Equipment falling on staff, other equipment	H&S	ND	Weight and awkward material to handle	Possible property damage Injury to staff	4	3	9	Keep safe working space around the machine, Supervision, Training of staff	P	Maintain existing controls	2	1	2		Employee	Capturing and reporting incidents and reported near misses						
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