

Business/Operating unit:	ERE Facilities Technical Service and Maintenance				
Date:	03.08.2023				
<i>List activity</i>	<i>Hazard nr</i>	<i>Hazard Identification</i>	<i>Risk Nr</i>	<i>Associated risk</i>	<i>Risk type</i>
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

Construction Works on Site	1	Loading and offloading with lifting machinery and equipment	1	Load falling	Safety
	2	Trip and Fall	2	Materials, Equipment's , Tools or waste lying on the floor surface	Health
	3	Chemical	3	Spillage	Health
	4	Electricity	4	Electric shock	Health
	5	Work at height	5	Fall	Health
	6	Use of Hand and Power Tools	6	Loose tools or equipment's	Health
	7	Motor vehicle	7	Motor vehicle accident	Health
	8	Dust	8	Inhaling dust particles	Health
	9	Excavation	9	Unguarded excavation	Health
	10	Ergonomics	10	Improper posture, Heavy load	Health

	11	Extreme Weather (Cold and Heat)	11	Hot Temperatures, Colder Temperatures	Health
	12	Stacking and storage	12	Improper stacking technique	Health
	13	Noise	13	Power tool, construction work	Health
Drilling through asbestos roofs	14	Asbestos material	14	Lung cancer, Silicosis, Mesothelioma	Health
Maintaining/ Dismantling asbestos structures	15	Asbestos material	15.1	Inhaling asbestos fibres	Health
		Structure collapse	15.2	Debris falling on employees	Safety
Stacking and Storage	16	Incorrect stacking and storage	16	Overexertion, Sprains and Strains, Stacks collapsing	Safety

Substance abuse	17	Performing work while intoxicated	17	Injury, damage to property	Safety
Use of generators	18	Noise	18.1	Hearing Discomfort, NIHL	Health
		Heavy lifting	18.2	Fatigue, Back, shoulder, neck, foot injuries	Safety
		Petrol/ Diesel fumes	18.3	Air pollution - Lung irritation	Health

Use of welding machines	19	Ultra violet ARC	19.1	Arc eyes	Safety
		Welding creating heat	19.2	Burn wounds	Safety
		Defective welding machines	19.3	Electrocution	Safety
		Welding fumes	19.4	Respiratory diseases.	Health
		Damaged power leads and incorrect earthing	20.1	Electrical shock . Burning from hot metals and tools.	Safety
Casting Concrete	20	Cement Dust	20.2	eye irritation, nose / throaght and upper respiratory system	Health
		Wet Concrete	20.3	Skin irritation, chemical burns,	Health
Demolition Work	21.1	Unauthorised personnel operating lifting equipment	21.1	Fatalities,Injuries, Property Damage	Safety
		Uncontrolled falling of Structures	21.2	Fatalities,Injuries, Property Damage	Safety

		Inadequate Supervision	21.3	Fatalities, Injuries, Property Damage	Safety
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Occupational Health and Safety Base

	Department:	Contractors
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	Prepared by:	Mardo van Tonder
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Refer to Occupational Health and Safety R

<i>Cause(s) of the risk</i>	<i>Exposed group/employees</i>	<i>Risk Owner</i>	<i>Exposure patterns</i>	<i>What are the possible consequences?</i>
What causes the risk to come into effect?	Who is exposed to the hazard i.e. visitors, members of the public, etc.	Who is accountable for making sure the controls and monitors are: - in place, - implemented, - regularly reviewed for effectiveness.	The frequency and duration the person/group is exposed to the hazard e.g. Daily for 3 hrs.	Consider the worse case scenario without controls?

Lifting equipment's failure	Contractor employees	Construction Manager/ Supervisor	Daily for 8 hours	Fatality , Head Injuries, Multiple Injuries
Improper Housekeeping	Contractor employees	Construction Manager/ Supervisor	Daily for 8 hours	Sprain ankle
Improper storage facility and defective containers	Contractor employees	Construction Manager/ Supervisor	Daily for 8 hours	Respiratory diseases or irritations
Faulty Equipment's	Contractor employees	Construction Manager/ Supervisor	Daily for 8 hours	Fatality, Electric shock, Electric Burns
Not using Fall Arrest System	Contractor employees	Construction Manager/ Supervisor	Daily for 8 hours	Fatality, Multiple Injuries
Failure of tools or equipment's	Contractor employees	Construction Manager/ Supervisor	Daily for 8 hours	Electrocuted, Electric shock, Head and Foot Injuries
Defective vehicle, Untrained driver	Contractor employees	Construction Manager/ Supervisor	Daily for 8 hours	Fatality, Multiple Injuries, Damage to vehicle
Excavation, Demolitions	Contractor employees	Construction Manager/ Supervisor	Daily for 8 hours	Respiratory diseases or irritations
Employees Negligence	Contractor employees	Construction Manager/ Supervisor	Daily for 8 hours	Broke legs, sprained ankles
Unaware on how to lift properly, Not using Mechanical Aid, Individual lifting	Contractor employees	Construction Manager/ Supervisor	Daily for 8 hours	Back pain, Spinal Cord Injury

Working Outside were there is direct exposure.	Contractor employees	Construction Manager/ Supervisor	Daily for 8 hours	Heat Stress/exhaustion/stroke, Hyperthermia
Lack of knowledge for stacking and storage	Contractor employees	Construction Manager/ Supervisor	Daily for 8 hours	Nip and Pinch Injury, Head Injury
Use of power tools	Contractor employees	Construction Manager/ Supervisor	Daily for 8 hours	Noise Induced hearing loss
Exposure long periods of work, improper PPE used, Lack of Medical Surveillance, Lack of monitoring an testing of equipment, Lack of maintenance	Employees	Site Supervisor, Employees	When ever the task is being performed	Lung cancer, Silicosis, Mesothelioma
Exposure long periods of work, improper PPE used, Lack of Medical Surveillance, Lack of monitoring an testing of equipment, Lack of maintenance	Employees	Site Supervisor, Employees	When ever the task is being performed	Lung cancer, Silicosis, Mesothelioma
Substandard dismantling techniques	Employees	Site Supervisor, Employees	When ever the task is being performed	Bodily injuries
Improper stacking and storage procedure, Lack of training, insufficient storage , Lack of demarcation, Walkways obstructed	Employees	Site Supervisor, Employees	When ever the task is being performed	Overexertion, Sprains and Strains, Stacks collapsing

Lack of substance abuse testing	Employees	Site Supervisor, Employees	Daily	Injury, damage to property
Exposure long periods of work, improper PPE used, Lack of Medical Surveillance, Lack of monitoring an testing of equipment, Lack of maintenance	Employees	Site Supervisor, Employees	When ever the task is being performed	Hearing Discomfort, NIHL
Improper lifting technique	Employees	Site Supervisor, Employees	When ever the task is being performed	Fatigue, Back, shoulder, neck, foot injuries
Inadequate maintenance, taking up unsafe position	Employees	Site Supervisor, Employees	When ever the task is being performed	Air pollution - Lung irritation

Lack of proper ventilation, not using PPE, Inadequate training, Lack of supervision	Employees	Site Supervisor, Employees	When ever the task is being performed	Eye injury, damage
Inadequate training, inexperienced welder, not wearing PPE, distraction	Employees	Site Supervisor, Employees	When ever the task is being performed	Injuries,
Lack of mainenance	Employees	Site Supervisor, Employees	When ever the task is being performed	Injury / Burns / Electrocution
Lack of proper ventilation, not using PPE, Inadequate training, Lack of supervision, lack of training	Employees	Site Supervisor, Employees	When ever the task is being performed	Injuries
Lack of Inpection and maintenance	Employees	Site Supervisor, Employees	When ever the task is being performed	Injury / Burns / Electrocution
Inadequate PPE,	Employees	Site Supervisor, Employees	When ever the task is being performed	eye irritation, nose / throaght and upper respiratory system
Inadequate PPE, Risk Assessment	Employees	Site Supervisor, Employees	When ever the task is being performed	Skin irrittation, chemical burns,
Lifting machine not lock-out	Employees	Site Supervisor, Employees	When ever the task is being performed	Fatalities,Injuries, Property Damage
No cranes maintenance,No testing certificates, Inadequate inspection of lifting equipment, Incorrect rigging, No Supervision, No tag lines	Employees	Site Supervisor, Employees	When ever the task is being performed	Fatalities,Injuries, Property Damage

Lack of Training and experience performing task	Employees	Site Supervisor, Employees	When ever the task is being performed	Fatalities,Injuries, Property Damage
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line risk assessment template

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Authorised by:	Name: Mardo van Tonder
	Designation: SHEQ Officer
	Date: 03.08.2023

risk assessment procedure 32-520

<i>Existing Controls</i>				<i>Additional Controls or Tasks Aimed at improving Existing Controls</i>
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) Elimination Substitution Engineering controls Administrative controls Personal protective equipment (PPE)	Consequence	Likelihood	Risk Priority Rating	<div style="text-align: center; background-color: #f0f0f0; padding: 5px;">RCE Risk Control Effectiveness</div> 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) NB: <i>The risk shall be evaluated, assessed and rated again once additional controls have been implemented and those controls listed as existing controls.</i>

Routine performance testing and examinations, Inspections, Training, Create safe drop/slew zone around lifting area, Supervision, Risk Assessment prior to task, PPE-Hard hat, Gloves, Safety Shoes	5	2	II	P	Awareness training
Inspections, Supervision, Tools and Equipment storages	3	3	II	P	Awareness and Training
Inspections, Supervision, Risk Assessment prior to task, Discussion of Material Safety Data Sheet, PPE-Hard hat, Gloves, Safety Shoes	3	2	III	P	Awareness and Training
Inspections, Supervision, Risk Assessment prior to task, Competent person handle electrical appliance and equipment's.	5	2	II	P	Awareness and Training
Training, Fall Protection plan, Inspections, Supervision, Risk Assessment prior to task, PPE	5	2	II	P	Awareness and Training
Inspections of tools and equipment's by user and store peron, Supervision, Risk Assessment prior to task	3	2	III	P	Awareness and Training, Work Stoppage when corrective measures are not implemented, Competency, Disciplinary
Vehicle Inspections, Competent Driver	5	2	II	P	Awareness and Training
Supervision, Risk Assessment prior to task, Dust Masks	2	3	III	P	Dust Awareness and Training
Inspections,Supervision,Barricading	3	3	II	P	Solid Barricade
Inspections, Supervision, Risk Assessment prior to task, Lifting technique awareness	3	3	II	P	Awareness and Training

Inspections, Supervision, Risk Assessment prior to task, PPE-Bush hat	2	2	IV	P	Awareness
Inspections, Supervision, Risk Assessment prior to task, Stacking and storage technique	3	2	III	P	Appointed Stacking and storage supervisor, Awareness and Training
Inspections, Supervision, Risk Assessment prior to task, Adequately rated earplugs or ear muffs, Medical surveillance	1	2	IV	P	Awareness and Training
PPE, Risk Assessment, medical surveillance, regular breaks, Occupational Hygiene Surveys, Asbestos Assessment Work Instruction-240-87103244, Appointed Approved inspection Authority, Registered Asbestos Contractor, Asbestos Work Plan	5	A	II	Fully effective	Adhere to existing controls
PPE, Risk Assessment, medical surveillance, regular breaks, Occupational Hygiene Surveys, Asbestos Assessment Work Instruction-240-87103244, Appointed Approved inspection Authority, Registered Asbestos Contractor, Asbestos Work Plan	5	A	II	Fully effective	Adhere to existing controls
Supervision, Risk assessment, Training, Appointed Structural engineer, Structural engineering survey, Method statement of how to demolish structure safely	5	C	II	Fully effective	Adhere to existing controls
Good standard of housekeeping, Sufficient storage, demarcation, Risk Assessment, Supervision,	2	C	III	Fully effective	Adhere to existing controls

Daily screening, medical surveillance, Employee awareness sessions	2	B	IV	Fully effective	Adhere to existing controls
PPE, Risk Assessment, medical surveillance, regular breaks, Occupational Hygiene Surveys	2	C	III	Fully effective	Adhere to existing controls
Use additional labour to reduce chance of back injury, use of correct lifting techniques, make use of trolleys to transfer equipment, program, treatment of minor bacomplaints, use of correct PPE (Safety shoes, gloves etc.), observations,Supervision, Risk Assessment, Incident records	2	B	IV	Fully effective	Adhere to existing controls
PPE, Risk Assessment, medical surveillance, regular breaks	2	B	IV	Fully effective	Adhere to existing controls

Welding PPE, Medical Surveillance, Welding Authorisation, Welding Zones,	2	B	IV	Fully effective	Adhere to existing controls
Regular inspections and maintenance of welding machine, cabling and clamps	2	B	IV	Fully effective	Adhere to existing controls
Work in ventilated area. Medical surveillances on people that uses it regularly. Only authorised operators. Training.	2	B	IV	Fully effective	Adhere to existing controls
Regular inspections of welding machine, cabling and clamps	2	B	IV	Fully effective	Adhere to existing controls
Inspections, Maintenance records, Supervision, Risk Assessment, PPE	2	B	IV	Fully effective	Adhere to existing controls
Supervision, PPE, Task Manual, On job observations, Medical surveillance	2	B	IV	Fully effective	Adhere to existing controls
Supervision, PPE, Task Manual, On job observations, Medical surveillance	2	B	IV	Fully effective	Adhere to existing controls
Supervision, Unauthorised use of lifting machines prohibited. Safety talks.	5	C	II	Fully effective	Adhere to existing controls
Supervision, Structural engineering Survey, Method statement on safe demolition, Risk assessment, Use equipment as per safe working instructions, Wear correct PPE, Training, Demolition work supervisor	5	C	II	Fully effective	Adhere to existing controls

Safety talks, Risk assessment, Situational awareness, adequate training and apply correct level of supervision. Should be medical fit. Ensure no unauthorised operating takes place.	5	C	II	Fully effective	Adhere to existing controls
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	Next Review Date (every 2 years):	03.08.2025	Template identifier:	240-70044602

	Document identifier	
	Revision number:	4
	Revision date:	30-Apr-27

Monitoring Mechanisms	Control Owner	Legal and Other Requirements	Target Date	Current Status	Integrated Risk Management (IRM) reference number
<p>How we know if we are succeeding. Include comments on effectiveness. This may include i.e. measurements, inspections, supervision where necessary.</p>	<p>Person allocated the responsibility for implementing the agreed controls (if applicable)</p>	<p>Where relevant, list the relevant legislative and or Eskom requirements that prescribe the control.</p>	<p>Once a date has been agreed to, this can not be changed (if applicable)</p>	<p>Pending, In Progress, Complete (if applicable)</p>	<p>Where applicable, add IRM system reference number for tracking of treatment actions. (applicable to risks that have an impact on business objectives or require intervention from Senior or Executive management such as impementing major engineering projects as a control)</p>

inspections, supervision, BBS, Task Observations	Construction Manager/ Supervisor	CR 9, DMR18(11)			
inspections, supervision, BBS, Task Observations	Construction Manager/ Supervisor	CR 9, CR 27 and ERW 6			
inspections, supervision, BBS, Task Observations	Construction Manager/ Supervisor	HCSR 7,8,9A, 10, 11, 12			
inspections, supervision, BBS, Task Observations	Construction Manager/ Supervisor	EIR 2, 5, 6, 7, 8 and LV regulations			
inspections, supervision, BBS, Task Observations	Construction Manager/ Supervisor	CR 9, CR 10 and 32-418			
inspections, supervision, BBS, Task Observations	Construction Manager/ Supervisor	CR 9, OHS Act 85 of 1993 Section 8 and 14			
inspections, supervision, BBS, Task Observations	Construction Manager/ Supervisor	National road traffic act 93 of 1996			
inspections, supervision, BBS, Task Observations	Construction Manager/ Supervisor	HACR 4, 6 and 7			
inspections, supervision, BBS, Task Observations	Construction Manager/ Supervisor	CR 9 and CR 13			
inspections, supervision, BBS, Task Observations	Construction Manager/ Supervisor	Ergonomic regulations 4, 6-8			

inspections, supervision, BBS, Task Observations	Construction Manager/ Supervisor	ERW 2 and 5			
inspections, supervision, BBS, Task Observations	Construction Manager/ Supervisor	CR 28			
inspections, supervision, BBS, Task Observations	Construction Manager/ Supervisor	NIHLR 3 - 13			
Medical Surveillance, Incident Records, Hygiene Surveys, Asbestos monthly Tracker	Site Supervisor	Asbestos Abatement Regulations ,32-303 General Safety Regulation 2			
Medical Surveillance, Incident Records, Hygiene Surveys, Asbestos monthly Tracker	Site Supervisor	Asbestos Abatement Regulations ,32-303 General Safety Regulation 2			
Incident records, On job observations	Site Supervisor	Construction regulation 12: Structures and Construction regulation 14: Demolition work			
Risk Assessments, Safework procedures, Incident Recors, Supervision	Site Supervisor	General Safety Regulation 8, Construction Regulation 28, Stacking and Storage Standard 240-93411424			

Monthly Substance abuse testing stats	Site Supervisor	General Safety Regulations 2A, 32-37 Substance Abuse Procedure			
Medical Surveillance, Incident Records, Hygiene Surveys	Site Supervisor	Noise Induced Hearing Loss Regulations 6(1) and 7(1), General Safety Regulation 2			
Medical Surveillance, Risk Assessment, Supervision, Discussion of Task Manuals of Physical Material Handling, Observations, Incident Stats	Site Supervisor	OHSA Section 14 - Duties of employees OHSA GSR 2(3)(c) - Personal safety equipment and facilities & 34 106			
Medical Surveillance, Incident Records, Hygiene Surveys	Site Supervisor	National Environmental Air Quality Act, General Safety Regulation 2			

Medical Surveillance, Incident stats	Site Supervisor	General Safety Regulation 9			
Medical Surveillance, Incident stats	Site Supervisor	General Safety Regulation 9			
Maintenance and Inspection records	Site Supervisor	General Safety Regulation 9			
Medical Surveillance, Incident stats	Site Supervisor	General Safety Regulation 9			
Maintenance and Inspection records	Site Supervisor	General Safety Regulation 9			
Maintenance and Inspection records	Site Supervisor	HCA Regulations, General Safety Regulation 9			
Maintenance and Inspection records	Site Supervisor	HCA Regulations, General Safety Regulation 9			
Maintenance and Inspection reports, Incident records, Load Test certificates	Site Supervisor	Driven Machinery Regulation 18(11)			
Maintenance and Inspection reports, Incident records, Load Test certificates	Site Supervisor	Construction Regulation 14: Demolition Work			

Risk Assessments, Safework procedures, Incident Recors, Supervision	Site Supervisor	OHSa Section 8 and 14 - Duties of employees OHSa GSR 2(3)(c) - Personal safety equipment and facilities & 34 106			
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