
	Occupational Health and Safety Risk Assessment (HIRA) Smart Meter Installation 2025_26	Template Identifier	240-43921898	Rev	7
		Document Identifier	240-70044602	Rev	1
		Review Date	May 2026		

DATE OF REVIEW	June 2025	DEVELOPED BY NAME	EA Eiman, E Mokalanyane	SIGNATURE	
----------------	-----------	-------------------	-------------------------	-----------	---

NO	ACTIVITY / PROCESS / OPERATIONS / PRODUCTS/SERVICES	SAFETY & HEALTH HAZARDS including ENVIRONMENTAL ASPECTS	SAFETY & HEALTH RISK including ENVIRONMENTAL IMPACT	RISK RATING BEFORE CONTROLS			CONTROL MEASURES (Eliminate, Substitute, Engineering controls, signage/warning/administrative, PPE)	RISK RATING AFTER CONTROLS		
				LIKELIHOOD	CONSEQUENCE	RISK INDEX		LIKELIHOOD	CONSEQUENCE	RISK INDEX
1	Driving to and from site	Not adhering to legislation.	Safety Risk							
		Speeding	Safety Risk							
		Driving on dangerous pothole road.	Safety Risk							
		Dirt Roads.	Safety Risk							
		High speeds/ Driving recklessly.	Safety Risk							
		Fatigue.	Safety Risk							
		Other vehicles driving unsafely.	Safety Risk							
		Slow moving plant obstructing traffic movement/flow	Safety Risk							
		Animals on the road	Safety Risk							
		Exposure to Dust.	Safety Risk							
2	Transporting material, equipment and people on the same vehicle	Vehicle involved in an accident	Safety Risk							
3	Fire prevention	Uncontrolled Fires	Safety Risk							
4	Manual handling	Overexertion, sprains and strains	Safety Risk							
		Incorrect lifting and handling procedures	Safety Risk							
5	Work areas / environment	Snakes, Insects etc	Safety Risk							
		Adverse Weather Conditions	Safety Risk							
		Loose gravel and stone leading to slips, trips and falls	Safety Risk							
		Entrance to work area located on congested street	Safety Risk							

CONTROLLED DISCLOSURE

When downloaded from the document management system, this document is uncontrolled, and the responsibility rests with the user to ensure that it is in line with the authorised version on the system. No part of this document may be reproduced without the express consent of the copyright holder, Eskom Holdings SOC Ltd, Reg. No. 2002/015527/30.



Occupational Health and Safety Risk Assessment (HIRA)

Smart Meter Installation 2025_26

Template Identifier	240-43921898	Rev	7
Document Identifier	240-70044602	Rev	1
Review Date	May 2026		

N O	ACTIVITY / PROCESS / OPERATIONS / PRODUCTS/SERVICES	SAFETY & HEALTH HAZARDS including ENVIRONMENTAL ASPECTS	SAFETY & HEALTH RISK including ENVIRONMENTAL IMPACT	RISK RATING BEFORE CONTROLS			CONTROL MEASURES (Eliminate, Substitute, Engineering controls, signage/warning/administrative, PPE)	RISK RATING AFTER CONTROLS		
				LIKELIHOOD	CONSEQUENCE	RISK INDEX		LIKELIHOOD	CONSEQUENCE	RISK INDEX
6	Use of hand tools	Defective hand tools	Safety Risk							
		Incorrect tool for the job	Safety Risk							
7	Use portable electrical tools	Defective electrical tool,	Safety Risk							
		Unsafe, sub-standard tools	Safety Risk							
		Exposed cables and leads	Safety Risk							
		Trailing cables leading to trips and falls	Safety Risk							
		Untrained employees using portable electrical tools	Safety Risk							
8	Stacking and storage of material & Housekeeping	Unstable stacking of goods / materials / Unsafe Stacking Procedures	Safety Risk							
		Stacking & Storage area not identified and demarcated	Safety Risk							
		Pinch Points	Safety Risk							
		Unstable Aggregate or Sand	Safety Risk							
		Stacks collapsing	Safety Risk							
		Overexertion	Safety Risk							
		Walkways obstructed	Safety Risk							
		Lack of demarcation	Safety Risk							
9	Construction vehicles and mobile Plant operations material.	Driving on uneven terrain	Safety Risk							
		Long hours driving	Safety Risk							
		Diesel, Petrol and Oil spills	Safety Risk							
		Using Public Roads	Safety Risk							
		Construction vehicles not roadworthy	Safety Risk							
		Employees transport facilities not roadworthy	Safety Risk							
		Mobile plant used in the project unsafe or substandard	Safety Risk							
		Intoxicated operator	Safety Risk							
		Vehicles left unattended when not operated	Safety Risk							
		Speeding	Safety Risk							
		Not buckled up	Safety Risk							

CONTROLLED DISCLOSURE

When downloaded from the document management system, this document is uncontrolled, and the responsibility rests with the user to ensure that it is in line with the authorised version on the system. No part of this document may be reproduced without the express consent of the copyright holder, Eskom Holdings SOC Ltd, Reg. No. 2002/015527/30.




Occupational Health and Safety Risk Assessment (HIRA)

Smart Meter Installation 2025_26

Template Identifier	240-43921898	Rev	7
Document Identifier	240-70044602	Rev	1
Review Date	May 2026		

NO	ACTIVITY / PROCESS / OPERATIONS / PRODUCTS/SERVICES	SAFETY & HEALTH HAZARDS including ENVIRONMENTAL ASPECTS	SAFETY & HEALTH RISK including ENVIRONMENTAL IMPACT	RISK RATING BEFORE CONTROLS			CONTROL MEASURES (Eliminate, Substitute, Engineering controls, signage/warning/administrative, PPE)	RISK RATING AFTER CONTROLS		
				LIKELIHOOD	CONSEQUENCE	RISK INDEX		LIKELIHOOD	CONSEQUENCE	RISK INDEX
		Overloading vehicles or Plant	Safety Risk							
10	Hot works (Grinding, Cutting, Welding, Drilling, Flame cutting, Soldering)	Incompetent employees conducting hot works	Safety Risk							
		No Hotwork permit	Safety Risk							
		Improper storage of welding material	Safety Risk							
		Hot works conducted in view of employees	Safety Risk							
		Unsafe/ damaged equipment used 1	Safety Risk							
		Hotwork near flammable materials	Safety Risk							
		Unsecured / unsafe storage of cylinders	Safety Risk							
		Sparks	Safety Risk							
		Fire	Safety Risk							
		Substandard PPE used	Safety Risk							
		Overhead Hotwork operations	Safety Risk							
		Hot works in wet conditions	Safety Risk							
		Incorrect Discs used when cutting	Safety Risk							
		No Guards in Place when cutting / Grinding.	Safety Risk							
		Incorrect fittings used when connecting pipes to cylinders	Safety Risk							
		No fire fighting equipment or fire fighter available	Safety Risk							
		Gauges not working on cylinders	Safety Risk							
		Hot work area not barricaded	Safety Risk							
11	Temporary electrical equipment/ installations	Illegal connections	Safety Risk							
		Poor cable management	Safety Risk							
		Sub standard equipment	Safety Risk							
		Incompetent Installer5.	Safety Risk							
		Unauthorised Access to DB's	Safety Risk							


CONTROLLED DISCLOSURE

	Occupational Health and Safety Risk Assessment (HIRA) Smart Meter Installation 2025_26	Template Identifier	240-43921898	Rev	7
		Document Identifier	240-70044602	Rev	1
		Review Date	May 2026		

N O	ACTIVITY / PROCESS / OPERATIONS / PRODUCTS/SERVICES	SAFETY & HEALTH HAZARDS including ENVIRONMENTAL ASPECTS	SAFETY & HEALTH RISK including ENVIRONMENTAL IMPACT	RISK RATING BEFORE CONTROLS			CONTROL MEASURES (Eliminate, Substitute, Engineering controls, signage/warning/administrative, PPE)	RISK RATING AFTER CONTROLS		
				LIKELIHOOD	CONSEQUENCE	RISK INDEX		LIKELIHOOD	CONSEQUENCE	RISK INDEX
12	Using of Big Bolt cutters- cutting of conductors/ steel bars,	Heavy equipment	Safety Risk							
		Falling Objects	Safety Risk							
		Cutting loose ends of conductor	Safety Risk							
13	Lifting Equipment	Falling of tools from elevated positions	Safety Risk							
		Heavy equipment.	Safety Risk							
		Breaking of conductors, slings and poles under tension.	Safety Risk							
14	Inspection	Falls on uneven terrain	Safety Risk							
		Criminal activities	Safety Risk							
		Attacks from Wild animals	Safety Risk							
15	Install & Earth of CT/VT Junction Box	The use of fastening straps, side cutters and pliers	Safety Risk							
		The use of spanners or adjustable wrenches	Safety Risk							
		Working in close proximity of existing live electrical circuits	Safety Risk							
16	Removal of Fibreglass Kiosk	Inhalation o fibreglass dust								
		Skin irritation								
17	Working at heights/Ladders	Inadequate Fall Protection Plan in place	Safety Risk							
		Inadequate / unsafe or damaged fall prevention equipment used	Safety Risk							
		Workers not trained to work at height	Safety Risk							
		Falling objects	Safety Risk							
		Workers falling	Safety Risk							
		Inclement Weather	Safety Risk							
		Defective Ladders	Safety Risk							
18	Public health & safety and Pedestrians access to site	Unsafe pedestrian access	Safety Risk							
		Injuries to by standing public or pedestrians	Safety Risk							

CONTROLLED DISCLOSURE

When downloaded from the document management system, this document is uncontrolled, and the responsibility rests with the user to ensure that it is in line with the authorised version on the system. No part of this document may be reproduced without the express consent of the copyright holder, Eskom Holdings SOC Ltd, Reg. No. 2002/015527/30.

	Occupational Health and Safety Risk Assessment (HIRA) Smart Meter Installation 2025_26	Template Identifier	240-43921898	Rev	7
		Document Identifier	240-70044602	Rev	1
		Review Date	May 2026		

NO	ACTIVITY / PROCESS / OPERATIONS / PRODUCTS/SERVICES	SAFETY & HEALTH HAZARDS including ENVIRONMENTAL ASPECTS	SAFETY & HEALTH RISK including ENVIRONMENTAL IMPACT	RISK RATING BEFORE CONTROLS			CONTROL MEASURES (Eliminate, Substitute, Engineering controls, signage/warning/administrative, PPE)	RISK RATING AFTER CONTROLS		
				LIKELIHOOD	CONSEQUENCE	RISK INDEX		LIKELIHOOD	CONSEQUENCE	RISK INDEX
		Public personal belongings or property damages	Safety Risk							
		Cutting of Rebar - causing sparks and fire	Safety Risk							
		Use of unsafe or damaged pliers	Safety Risk							
19	Emergency Preparedness (Fire Prevention, First aid)	Inadequate emergency Planning	Safety Risk							
		Inadequate first-aid arrangements	Safety Risk							
		Inadequate fire prevention and protection measures	Safety Risk							

CONTROLLED DISCLOSURE