

TASK / ACTIVITY/ EQUIPMENT/ FACILITY	HAZARDS	UNWANTED EVENT	MINIMUM CONTROLS REQUIRED	RISK NO.	LIKELI-HOOD	CONSE-QUENCE	RISK VALUE	RECOMMENDED ADDITIONAL CONTROLS

		Ladder can slip and fall over/ User can fall from a ladder leading to injuries and damage	<ul style="list-style-type: none"> <li>• All ladders to be placed on level surface</li> <li>• All aluminium ladders to have rubber feet</li> <li>• All ladders to be in a well maintained state</li> <li>• All ladders must be secured and stabilised before and during use</li> <li>• All persons working at a height must have a valid Certificate of Fitness</li> <li>• Wear appropriate PPE; safety shoes, safety harness e.t.c.</li> <li>• Ensure that harness hooking points are suitable to carry required weight</li> <li>• No working from ladders during inclement weather</li> </ul>	R1	2	2	5	Where practical, a tower scaffold must be used instead of a ladder

	Working on/ in elevated surfaces	People and tools fall from elevated height leading to injuries and damages	<ul style="list-style-type: none"> <li>• All persons working at heights must have valid Certificates of Fitness</li> <li>• All persons working at height must have valid Working at Height training</li> <li>• Appropriate PPE</li> <li>• No work may be done if the surface is wet</li> <li>• Ensure there is enough light in the work area</li> <li>• Ensure all tools being used are properly secured</li> <li>• Where practical, a tower scaffold must be used instead of a ladder</li> </ul>	R2	2	2	5	
	Working from a scaffold	Scaffold collapse causing injuries and property damage	<ul style="list-style-type: none"> <li>• Scaffold must be erected as per the relevant SANS Code</li> <li>• Only qualified persons may erect scaffold</li> <li>• All scaffolds must be formally inspected and signed off as "Safe for use" before work may commence</li> <li>• Persons working from scaffold must be trained in the proper use of scaffolds</li> </ul>	R3	1	4	10	

		<p align="center">Persons/ tools falling from scaffold</p>	<ul style="list-style-type: none"> <li>• All persons working at heights must have valid Medical Certificates of Fitness</li> <li>• Appropriate PPE must be used</li> <li>• Use scaffold only for its intended purpose</li> <li>• Contractor/ client to engage with occupants regarding scaffold safety</li> <li>• All persons working at height must have valid Working at Height training</li> <li>• Secure all tools being used</li> <li>• No scaffold work is allowed during inclement weather</li> <li>• Persons working from scaffold must be trained in the proper use of scaffolds</li> <li>• Barricade a one meter safe area around the base of the scaffold</li> </ul>	R4	1	3	6	
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	Working from a sky-jack and other Mechanically Elevated Work Platforms (MEWP)		<ul style="list-style-type: none"> <li>All persons working at heights must have valid Medical Certificates of Fitness</li> <li>Appropriate PPE must be used</li> <li>Use MEWPs only for its intended purpose</li> <li>Contractor/ client to engage with occupants regarding MEWP safety</li> <li>All persons working at height must have valid Working at Height training</li> <li>Secure all tools being used</li> <li>No MEWP work is allowed during inclement weather</li> <li>Barricade a one meter safe area around the base of the MEWP</li> </ul>	R5	1	3	6	
Working with power tools e.g. angle grinders, drills, lawn mowers, and hand tools	High noise levels	Noise Induced Hearing Loss	Appropriate hearing protection must be worn during all activities where people are exposed to noise levels above 85dB	R6	2	2	5	

	Air born particles	Eye injuries and arc-eyes	<ul style="list-style-type: none"> <li>Wear appropriate eye protection</li> <li>Ensure all machine guarding is all in place</li> </ul>	R7	2	3	9	
		Inhalation of dust	Wear appropriate dust mask	R8	2	2	5	
		Skin lacerations and burns	<ul style="list-style-type: none"> <li>Wear appropriate clothing and gloves</li> <li>Ensure machine guarding is all in place</li> </ul>	R9	2	1	2	
	Electricity	Electric shock	<ul style="list-style-type: none"> <li>All tools to be in a good state of repair</li> <li>All tools must be registered and inspected at the start of the work shift and record must be kept</li> <li>All electrical wiring must be in good repair</li> <li>Do not work with electrical tools in wet or unsuitable conditions</li> </ul>	R10	1	4	10	

	Hot shavings causing fires	Fires lead to property damage and injuries	<ul style="list-style-type: none"> <li>• First assess the work area to identify and eliminate possible fire hazards e.g. protect by welding curtains</li> <li>• Ensure functional fire-fighting equipment is in close proximity during all hot work</li> <li>• Call the fire brigade if fire becomes uncontrollable</li> <li>• People must be trained in appropriate work procedures</li> </ul>	R11	1	2	3	
	General housekeeping and storage of tools	Un-authorized usage or accidental damage/ injuries	<ul style="list-style-type: none"> <li>• All tools to be stored in an appropriate manner</li> <li>• Tools in use must always be under the control of an authorised person</li> </ul>	R12	2	2	5	
Gasoline operated equipment	Refuelling of machinery	Fire	<ul style="list-style-type: none"> <li>• Ensure the machine is cool before re-fuelling</li> <li>• Only refill using appropriate equipment within a safe environment</li> <li>• Ensure fire-fighting equipment in a close proximity</li> </ul>	R13	1	3	6	
		Splashes into eyes causing eye damage and/ or skin irritation	Refill in a safe manner	R14	2	1	2	

Installation and replacing of windows	Glass	Lacerations and cuts	Appropriate measures must be used to remove, carry and install and dispose glass to ensure no injuries to employees or public	R15	4	2	12	
Digging of excavations	Excavation	People and animals fall into the excavations getting injured	<ul style="list-style-type: none"> <li>Excavations must be properly fenced off with snow/ orange netting</li> <li>Excavations must be registered and inspected on a daily basis</li> </ul>	R16	3	3	13	Display appropriate warning signs
		Excavation collapse	All excavations to comply with the Construction Regulations requirements for excavations	R17	1	2	3	
	Existing underground services	<ul style="list-style-type: none"> <li>Damage of existing services</li> <li>Injuries to people</li> </ul>	Client to communicate the location of existing underground services (electrical, water, gas etc.)	R18	3	2	8	
Working with Hazardous Chemical Substances	Inhalation of fumes	Various medical conditions	MSDS guidelines to be followed when working with HCS's	R19	2	2	5	



	Ingestion of chemicals	Various medical conditions	<ul style="list-style-type: none"> <li>MSDS guidelines to be followed when working with HCS's</li> <li>All containers containing HCS's must be clearly identified</li> </ul>	R20	1	3	6	
	Splashes in eyes	Various medical conditions	<ul style="list-style-type: none"> <li>MSDS guidelines to be followed when working with HCS's</li> <li>Appropriate eye protection must be worn</li> </ul>	R21	1	2	3	
	Contact with skin	Various medical conditions	<ul style="list-style-type: none"> <li>MSDS guidelines to be followed when working with HCS's</li> <li>Appropriate PPE must be worn</li> </ul>	R22	1	2	3	
	Spillage causing environmental contamination	Environmental contamination	MSDS guidelines to be followed when working with HCS's	R23	1	1	1	
	Flammable or combustible chemicals	Explosions and fires	<ul style="list-style-type: none"> <li>MSDS guidelines to be followed when working with HCS's</li> <li>When working with flammable or combustible chemicals an appropriate fire extinguisher must be kept close</li> </ul>	R24	2	3	9	

	Incorrect disposal of chemical waste	Environmental pollution and health risk	Dispose as per relevant MSDS	R25	1	3	6	
	Incorrect storage of HCS's	<ul style="list-style-type: none"> <li>• Environmental pollution</li> <li>• Health risk</li> <li>• Fire</li> <li>• Damage to property</li> </ul>	All HCS's must be stored as per MSDS and in such a way to prevent un-authorized access	R26	2	3	9	
	Gas installations	<ul style="list-style-type: none"> <li>• Asphyxiation</li> <li>• Explosions causing property damage and personal injuries/ death</li> </ul>	<ul style="list-style-type: none"> <li>• COC's must be issued for all gas installations</li> <li>• Regular inspection of gas installations</li> <li>• No smoking/ open flames in a close proximity to gas bottle storage areas</li> <li>• Gas bottles to be stored in purpose made cages and locked</li> <li>• Immediately report any gas leaks</li> </ul>	R27	1	2	3	
Cleaning of common areas	Wet slippery surfaces	Slip and fall	<ul style="list-style-type: none"> <li>• Ensure that appropriate warning signs are displayed while cleaning</li> <li>• Prevent excessive use of water</li> </ul>	R28	3	3	13	

	Using mechanical cleaning and polishing equipment	Injury to operator and public	<ul style="list-style-type: none"> <li>• Appropriate PPE must be worn</li> <li>• Appropriate warning signs must be displayed</li> <li>• Ensure that machinery are always in a state of good repair</li> <li>• Operators to be declared competent to safely use machinery</li> </ul>	R29	2	2	5	

<p>Electrical installations</p>	<p>Alterations and maintenance, e.g. changing of light bulbs, changing circuit breakers etc., to electrical reticulation system</p>	<ul style="list-style-type: none"> <li>• Electrical shock</li> <li>• Electrical fires</li> </ul>	<ul style="list-style-type: none"> <li>• Only qualified and registered electricians to alter and maintain electrical reticulation</li> <li>• COC's must be issued for all alterations</li> <li>• Before starting with maintenance/ alterations, ensure that the installation is rendered safe (consider Lock-Out system)</li> <li>• Ensure that work area is dry and safe</li> <li>• Ensure that appropriate shoes are worn</li> <li>• Ensure that an appropriate fire extinguisher is close when performing electrical work</li> <li>• No electrical work may be done close to flammable HCS's</li> <li>• Only non-conductive equipment and tools may be used when working on electrical installations</li> </ul>	<p>R30</p>	<p>2</p>	<p>3</p>	<p>9</p>	

General	Pets	Being attacked by dogs leading to injuries	<ul style="list-style-type: none"> <li>• Appropriate warning signs must be displayed by the owner</li> <li>• Don't engage strange dogs</li> <li>• Don't enter property without prior arrangements</li> <li>• Owners must ensure that dangerous animals are under control at all times</li> </ul>	R31	2	4	14	
	First aid equipment	Lack of first aid equipment can result in injuries being aggravated	<ul style="list-style-type: none"> <li>• Service providers/ contractors to ensure that the first aid requirements of GSR are adhered to</li> <li>• Where a client employs 5 or more people, a first aid box must be available</li> <li>• Where a client employs 10 or more people, a qualified first aid attendant must be trained and appointed</li> </ul>	R32	2	2	5	

	Third party involvement	Injuries and property damage of third parties	<ul style="list-style-type: none"> <li>Appropriate control measure must be implemented and maintained to minimise third parties' exposure to hazards and risks</li> <li>Sufficient third party liability insurance to be in place and up to date at all times</li> </ul>	R33	2	3	9	
	Inclement weather	Injuries/ fatality	Assess and ensure that the weather conditions are conducive to safe working conditions	R34	2	2	5	
	Emergency situations	People being injured/ trapped	<ul style="list-style-type: none"> <li>Client to formulate and communicate/ display an Emergency Response Plan</li> </ul>	R35	2	4	14	
		Poorly maintained fire - fighting equipment can lead to fires spreading	Fire equipment must be formally serviced annually by an AIA	R36	2	4	14	
	Road/ lane obstructions	Road/ lane obstructions can lead to accidents	<ul style="list-style-type: none"> <li>Appropriate signage must be displayed to warn of road/ lane obstructions</li> <li>Flag-men must be used where necessary</li> </ul>	R37	2	3	9	



**CONSTRUCTION HEALTH AND SAFETY MANAGEMENT SYSTEM**  
**BASELINE HIRA**



	Bodies of water (swimming pools, dams etc.)	Drowning	Applicable legislation to be adhered to	R38	2	4	14	

**RISK ASSESSMENT CONDUCTED BY:**

**RISK ASSESSMENT ATTENDANCE**

The following persons were involved in conducting the above risk assessment:

Full name and Surname	Signature	Date



**CONSTRUCTION HEALTH AND SAFETY MANAGEMENT SYSTEM**  
**BASELINE HIRA**




**RISK ASSESSMENT REVISIONS**

The risk assessment will be reviewed monthly during the internal self-audits and upgraded and changed when necessary as the project develops.

	Date	Risk Numbers Changed	Signature Risk Assessor
<b>Initial Assessment</b>			
<b>1<sup>st</sup> Review</b>			
<b>2<sup>nd</sup> Review</b>			
<b>3<sup>rd</sup> Review</b>			
<b>4<sup>th</sup> Review</b>			
<b>5<sup>th</sup> Review</b>			