

**RA111- Risk Assessment** - General use of Drilling Rig and attachment  
(Including Mobilisation, Demobilisation, Rigging Up and Rigging down) – SITE



<b>Work Activity:</b> General use of Drilling Rig and attachment	
<b>R.A. No.:</b> 111	<b>Site:</b> On Site

**PART 1: GENERIC RISK ASSESSMENT**

**Main Hazards Are:**

1. Squeezing when standing in the Danger Area
2. Spraying of liquids under pressure due to failure and mechanical damage.
3. Touching of hot machine parts during operation and maintenance.
4. Injury from falling loads, collisions and unexpected movements
5. Excessive noise when standing in the Danger area without suitable ear protection
6. Inhalation of harmful liquids or gases
7. Fire & explosion
8. Danger from falling machine parts and parts ejected from the machine
9. Loss of stability
10. Through unskilled personnel operating machinery
11. Through human misbehaviour and carelessness
12. Through slipping on wet and muddy ground.
13. Through slips, trips and falls from top of cab

**Persons/Properties Exposed Are:**

Rig Operator, Slinger/ Spotter, Other personnel on site

<b>Assessment of Risk:</b>	Severity	4	x	Likelihood	4	=	Risk	16
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**Control Measures Required:**

1. The Customer is responsible for the safety of the operation area.
2. Only personnel qualified, authorised and instructed by ABI Equipment are allowed to operate the Drilling Rig, Rotary and Winches.
3. Only authorised personnel allowed in Danger Area. Wherever possible personnel to leave Danger Area when the Rig, Rotary or Winch are in operation.
4. Sling/Spotter or Service technician to maintain visual contact with Operator at all times.
5. Area to cordoned off if likelihood of unexpected personnel in Danger Area
6. Drilling Rig and Rotary to be inspected daily in accordance with the daily check sheet and properly maintained in accordance with the Delmag Manual
7. Hydraulic System to be de-pressurised before maintenance work starts
8. Hydraulic System to be de-pressurised before oil levels are topped up or work is done on fluid control.
9. Machine parts must be allowed to cool down before being touched or maintained.
10. Ear defenders to be worn when necessary in the danger area
11. Machine to be maintained and repaired in accordance with ABI/Delmag
12. Rig to be operated on load bearing ground away from excavations
13. Rig to be moved/operated in accordance with ABI/Delmag Operators manual in the correct position and correct manner
14. Suitable PPE to be worn at all times

**PPE:** ☒

Safety helmets	<input checked="" type="checkbox"/>
Hi-Vis Jackets	<input checked="" type="checkbox"/>
Safety footwear	<input checked="" type="checkbox"/>
Eye protection	<input checked="" type="checkbox"/>
Dust masks	<input type="checkbox"/>
Ear plugs	<input checked="" type="checkbox"/>
Ear muffs	<input checked="" type="checkbox"/>
Gloves	<input checked="" type="checkbox"/>
Protective overalls	<input checked="" type="checkbox"/>
Gauntlets	<input type="checkbox"/>
Harnesses	<input type="checkbox"/>
Breathing apparatus	<input type="checkbox"/>

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PART 1: GENERIC RISK ASSESSMENT							
<b>Control Measures Required (continued):</b>							
15. All personnel to know the location of the emergency stop buttons 16. No Personnel to stand under or near a load being lifted by the winch							
<b>Assessment of Risk:</b>	Severity	4	X	Likelihood	2	= Risk	8
PART 2: TASK SPECIFIC ASSESSMENT							
<b>Additional Persons/ Property Exposed Are:</b>							
Unauthorised people on site							
<b>Additional Specific Hazards Identified Are:</b>							
1. Extreme weather or site conditions. 2. Where Time is critical In both cases the Customer is responsible for maintaining a safe site and in in supervising and instruction the Drilling Rig Operator and Slinger/Spotter							
<b>Maximum Number of People Involved in The Activity:</b>							
At least two people should be present when operating and moving the Drilling Rig and Rotary: The Operator and Slinger/Spotter. Other people may be present, but they must be outside the Danger Area.							
<b>Frequency and Duration of Activity:</b>							
Activity varies but the rig is on hire: Usually 10 hours per day and 50 hours per week. An additional risk assessment is needed if the Drilling operation is at night, longer than normal working hours or on a shift basis							
<b>Additional Control Measures Required:</b>							
The employee must be adequately trained and competent to operate in the area in which they are to work.							
Newly trained staff should be supervised until a suitable level of competency has been achieved.							
All personnel on site should be made aware of the safe systems of work. The Operator and Supervisor must have read and understand the ABI/Delmag Operators Manual. All personnel involved must know where the Danger Area is and how to operate the Emergency Stop Buttons							
<b>List Extra PPE:</b>							
All personnel MUST wear the appropriate level of PPE for the activity they are involved with or area they are in.							
<b>Assessment of Risk:</b>	Severity	3	x	Likelihood	2	= Risk	6
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Updated By:	Ash Soliman			Date:	04/10/24		
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RISK RATING = L x S			Hazard Severity (S)				
			1	2	3	4	5
			Negligible	Slight	Moderate	High	Very High
Likelihood (L)	1	Very Unlikely	LOW	LOW	LOW	LOW	LOW
	2	Unlikely	LOW	LOW	LOW	MEDIUM	MEDIUM
	3	Possible	LOW	LOW	MEDIUM	HIGH	HIGH
	4	Likely	LOW	MEDIUM	HIGH	HIGH	HIGH
	5	Very Likely	LOW	MEDIUM	HIGH	HIGH	HIGH

Likely Hood	
1. Very Unlikely	A freak combination of factors would be required for an accident/incident to occur
2. Unlikely	A rare combination of factors would be required for an accident/incident to occur
3. Possible	Could happen when accidental factors are present but otherwise unlikely
4. Likely	Not certain to happen but an additional factor may result in an accident/incident
5. Very Likely	Almost inevitable that an accident/incident would occur
Hazard Severity	
1. Negligible	Negligible injury, no absence from work
2. Slight	Minor injury requiring first aid
3. Moderate	Injury leading to a lost time accident
4. High	Involving a single person with a serious injury / death
5. Very High	Multiple persons with serious injury / death
Outcomes	
LOW	Score (1-6) May be acceptable. Annual Review to see if risks can be reduced further
MEDIUM	Score (8-10) Identify controls must be identified or specific method statement required
HIGH	Score (12-25) Task <b>must not</b> proceed. Senior Management to consider if the risks can be reduced by purchase of additional training, additional equipment, additional staff, additional signage, safe system of work, permit to work or radical changes in method.

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