

# Risk Assessment

## RA102 - Loading, Unloading & Transporting a Piling Rig



ABI Equipment Ltd	Creation Date: 05/06/19
Loading, Unloading & Transporting a Piling Rig	

Main Hazards are:	
Through Crushing when standing in the Danger Area	Danger of injury and damage due loss of stability and the Piling rig tipping over if not correctly placed in transport position.
Danger of injury and damage due to hydraulic and mechanical components being overstressed if mast folded in its extended position. Spraying liquids under pressure.	Through human misbehavior and carelessness.
Touching of hot machine parts during the folding down operation.	Through slipping on wet and muddy ground.
Injury from falling loads, collisions and unexpected movements.	Falling from height
Danger from falling machine parts and parts ejected from the machine.	
Persons / Property affected	
All Employees	General Public
Rig Operator	Low-loader driver
Slinger/ Spotter	Other personnel on site
Visitors	Unauthorised People on Site

Assessment of Risk:	Severity	5	X	Likelihood	4	= Risk	20
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Control Measures already in Place	PPE Required	
1. Control measures as per RA100 General use of Piling Rig and Vibro.	Safety helmets	<input checked="" type="checkbox"/>
2. Personnel should move out of the area before the folding down & standing up procedure starts.	Hi-Vis Jackets	<input checked="" type="checkbox"/>
3. All attachments must be removed before the folding down operation starts.	Safety footwear	<input checked="" type="checkbox"/>
4. Sling/Spotter or Service technician to maintain visual contact with Operator at all times during the folding down of the mast.	Eye protection	<input type="checkbox"/>
5. The folding down procedures must be constantly monitored and stopped immediately if there are signs of hydraulic hoses being compressed or overstressed.	Dust masks	<input type="checkbox"/>
6. A final check to ensure all main boom cylinders have been retracted must be done before the mast is folded down.	Ear plugs	<input type="checkbox"/>
7. Suitable PPE to be worn at all times.	Earmuffs	<input type="checkbox"/>
8. All personnel to know the location of the emergency stop buttons.	Gloves	<input type="checkbox"/>
	Protective overalls	<input checked="" type="checkbox"/>
	Gauntlets	<input type="checkbox"/>
	Harnesses	<input checked="" type="checkbox"/>
	Breathing apparatus	<input type="checkbox"/>
	Face masks	<input type="checkbox"/>

Assessment of Risk:	Severity	2	X	Likelihood	2	= Risk	4
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Additional Controls required	PPE/Equipment
The employee must be adequately trained and competent to operate a piling rig and vibro.	All personnel MUST wear the appropriate level of PPE for the activity they are involved with or area they are in.

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Newly trained staff should be supervised until a suitable level of competency has been achieved.	
At least two people should be present when operating and moving the Piling Rig and attachment: The Operator and Slinger/Spotter.	
All personnel on site should be made aware of the safe systems of work. The Operator and Supervisor must read and understand the ABI Operators Manual.	

<b>Assessment of Risk:</b>	Severity	2	X	Likelihood	2	= Risk	4
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Approval and Review		
Prepared by:	Cathy Sheehan	05/06/2019
Updated by	Ash Soliman	04/10/2024
Review by:	Ash Soliman	04/10/2024

RISK RATING = L x S			Hazard Severity (S)				
			1	2	3	4	5
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

Likelihood	
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><u>must not</u></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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Prepared by	Cathy Sheehan
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