

# Risk Assessment

## RA101 - Use of Piling Rig & Vibrator to Install & Extract Piles



ABI Equipment Ltd	Creation Date: 28/09/21
Use of Piling Rig & Vibrator to Install & Extract Piles	

Main Hazards are:	
As RA 100 General use of Piling Rig and Vibrator.	Risk of damage to pitching chain resulting in failure of chain and pile falling over.
Risk of piles falling over if not secured by pitching chain.	
Persons / Property affected	
All Employees	General Public
Rig Operator	Slinger/Spotter
Other Personnel on Site	Visitors
Unauthorized 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. This Risk Assessment to be read in conjunction with RA100- General use of Piling Rig and Vibro.	Safety helmets <input checked="" type="checkbox"/>
2. Sling/Spotter or Service technician to maintain visual contact with Operator at all times.	Hi-Vis Jackets <input checked="" type="checkbox"/>
3. Personnel should move out of the lifting area before the pile is lifted from the ground.	Safety footwear <input checked="" type="checkbox"/>
4. Care should be taken to ensure an approved pitching chain is always used, that the load doesn't exceed the load capacity of the chain and that the chain is not damaged, squeezed or clamped during use.	Eye protection <input checked="" type="checkbox"/>
5. Only use piles with an approved pitching hole diameter and distance and free from burs or the pitching chain could be damaged.	Dust masks <input type="checkbox"/>
6. Care should be taken to ensure the T-bar is correctly positioned on the clamp support.	Ear plugs <input checked="" type="checkbox"/>
7. Pile should be lifted slowly to prevent free swinging of pile.	Earmuffs <input checked="" type="checkbox"/>
8. Pitching Chain to be inspected every day and should be replaced if damaged or distorted.	Gloves <input checked="" type="checkbox"/>
9. The Piling Rig must not be moved or slewed during the operation.	Protective overalls <input checked="" type="checkbox"/>
10. Suitable PPE to be worn at all times.	Gauntlets <input type="checkbox"/>
11. All personnel to know the location of the emergency stop buttons	Harnesses <input 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.
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 Vibro: The Operator and Slinger/Spotter.	

# Risk Assessment

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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	28/09/2021
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
			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

### 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>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.

<b>Version Number</b>	<b>RA101-1024-2.0</b>
Document location	M:\Health & Safety\Risk Assessments
Prepared by	Cathy Sheehan
Reviewed by	Ash Soliman
Next review Date	October 2027