## Risk Assessment RA100 - General use of Piling Rig & Vibro



ABI Equipment Ltd	Creation Date: 10/07/17
General use of Piling Rig & Vibro	

Main Hazards are:	
Crushing when standing in the Danger Area.	Danger from falling machine parts and parts ejected from
	the machine.
Spraying of liquids under pressure due to failure	Loss of stability
and mechanical damage.	
Touching of hot machine parts during operation	Loss of stability through unskilled personnel operating
and maintenance.	machinery.
Injury from falling loads, collisions and unexpected	Loss of stability through human misbehavior and
movements.	carelessness.
Excessive noise when standing in the Danger area	Loss of stability through slips, trips and falls out of the cab or
without suitable ear protection.	from the machine.
Inhalation of harmful liquids or gases.	
Fire & explosion.	
Persons / Property affected	
All Employees	General Public
Rig Operator	Slinger/Spotter
Other Personnel on site	Visitors
Unauthorised People on Site	

Assessment of Risk:	Severity	4	Χ	Likelihood	4	= Risk	16

Со	Control Measures already in Place PPE Required						
1.	The Customer is responsible for the safety of the operation area.	Safety helmets	$\boxtimes$				
2.	Only personnel qualified, authorised, and instructed by ABI Equipment are	Hi-Vis Jackets	$\boxtimes$				
	allowed to operate the Piling Rig, attachments and Winch.	Safety footwear	$\boxtimes$				
3.	Only authorised personnel are allowed in Danger Area. Wherever possible	Eye protection					
	personnel to leave Danger Area when the Rig, attachment or Winch are in	Dust masks					
	operation.						
4.	Sling/Spotter or Service technician to maintain visual contact with Operator	Ear plugs					
	at all times.	Earmuffs	$\boxtimes$				
5.	Area to cordoned off if likelihood of unexpected personnel in Danger Area.	Gloves	$\boxtimes$				
6.	Piling Rig and attachment to be inspected daily in accordance with the daily	Protective overalls	$\boxtimes$				
	check sheet and properly maintained in accordance with the ABI Manual.	Gauntlets					
7.	Hydraulic System to be de-pressurised before maintenance work starts.	Harnesses	Fi I				
8.	Hydraulic System to be de-pressurised before oil levels are topped up or		H				
	work is done on fluid control.	Breathing apparatus	H				
9.	Machine parts must be allowed to cool down before being touched or maintained.	Face masks					
10.	Ear defenders to be worn at all times in danger area while in operation.						
11.	Machine to be maintained and repaired in accordance with the ABI.						
12.	Rig to be operated on load bearing ground away from excavations.						
13.	Rig to be moved/operated in accordance with ABI Operators manual in the						
	correct position and correct manner.						
14.	Suitable PPE to be worn at all times.						
15.	All personnel to know the location of the emergency stop buttons.						
16.	No Personnel to stand under or near any load while being lifted.						

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Assessment of Risk: Severity 3 X Likelihood 2 = Risk 6

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.	
In extreme weather or where time is crucial, the Customer is responsible for maintaining a safe site and in in supervising and instruction the Piling Rig Operator and Slinger/Spotter.	
At least two people should be present when operating and moving the Piling Rig and Vibrator: The Operator and Slinger/Spotter. Other people may be present, but they must be outside the Danger Area.	
The rig is on hire: Usually 10 hours per day and 50 hours per week. An additional risk assessment is needed if the piling operation is at night, longer than normal working hours or on a shift basis.	
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 Operators Manual. All personnel involved must know where the Danger Area is and how to operate the Emergency Stop Buttons.	

Assessment of Risk:	Severity	3	Х	Likelihood	2	= Risk	6	

Approval and Review						
Prepared by:	Cathy Sheehan	10/07/2017				
Updated by	Ash Soliman	04/10/2024				
Review by:	Ash Soliman	04/10/2024				

	RISK	RATING		Hazard Severity (S)						
= L x S		1	1 2 3		4	_ 5				
	Negligible Slight Moderate		Moderate	High	Very High					
Ē	1	Very Unlikely	LOW	LOW	LOW	LOW	LOW			
ikelih	2	Unlikely	LOW	LOW	LOW	MEDIUM	MEDIUM			
ood	3	Possible	LOW	LOW	MEDIUM	HIGH	HIGH			
Ē	4	Likely	LOW	MEDIUM	HIGH	HIGH	HIGH			
	5	Very Likely	LOW	MEDIUM	HIGH	HIGH	HIGH			

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Like	ely 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				
Haz	ard 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				
Out	tcomes					
LOV	N	Score (1-6) May be acceptable. Annual Review to see if risks can be reduced further				
ME	DIUM	Score (8-10) Identify controls must be identified or specific method statement required				
HIG	SH	Score (12-25) Task <u>must not</u> 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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