

Risk Assessment

RA105 - Mounting / De-Mounting Attachments

Using a Crane



ABI Equipment Ltd	Creation Date: 23/05/2022
Mounting / De-Mounting Attachments Using a Crane	

Main Hazards are:	
Squeezing when standing in the Danger Area	Through unskilled personnel operating machinery
Injury from falling loads, collisions and unexpected movements	Injury through human misbehaviour and carelessness
Excessive noise when standing in the Danger area without suitable ear protection	Injury through slips, trips and falls from top of cab
Loss of stability	Injury from manual handling
Unexpected people in the operation area	Increased risk due to poor weather conditions
Injury due to poor supervision of the operation	
Persons / Property affected	
All Site staff	General Public
Visitors to site	ABI Employees

Assessment of Risk:	Severity	4	X	Likelihood	4	= Risk	16
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Control Measures already in Place					PPE Required			
1. The Customer is responsible for the safety of the operation area					Safety helmets			<input checked="" type="checkbox"/>
2. The method statement must be completed by the appointed person taking into account the specifications of the crane, lifting tackle and the attachment being lifted, the operation area, weather conditions and height of the lift. This information is to be included on the Method Statement.					Hi-Vis Jackets			<input checked="" type="checkbox"/>
					Safety footwear			<input checked="" type="checkbox"/>
					Eye protection			<input type="checkbox"/>
3. A lift supervisor must be appointed. The Lift supervisor must liaise with the appointed person and the customer					Dust masks			<input type="checkbox"/>
					Ear plugs			<input type="checkbox"/>
4. A toolbox talk must be given to all personnel involved in the operation who should sign the method statement to confirm that a clear briefing explaining the job and emergency procedures has been given and is understood.					Earmuffs			<input checked="" type="checkbox"/>
					Gloves			<input type="checkbox"/>
					Protective overalls			<input type="checkbox"/>
					Gauntlets			<input type="checkbox"/>
5. Only personnel qualified, authorised, and instructed by the customer are allowed to operate the Crane					Harnesses			<input type="checkbox"/>
					Breathing apparatus			<input type="checkbox"/>
6. Only authorised personnel allowed in Danger Area. Wherever possible personnel to leave Danger Area when the Crane is in operation.					Face masks			<input type="checkbox"/>
7. Sling/Spotter or Service technician to maintain visual contact with Operator at all times.								
8. Area to cordoned off if likelihood of unexpected personnel in Danger Area								
9. Crane to be inspected daily and properly maintained in accordance with the operating manual								
10. Ear defenders to be worn at all times in danger area								
11. Crane to be operated on load bearing ground away from excavations								
12. Crane to be moved/operated in accordance with ABI/Delmag Operators manual in the correct position and correct manner								
13. Suitable PPE to be worn at all times								
14. All personnel to know the location of the emergency stop buttons								
15. No Personnel to stand under or near a load being lifted by the winch								
Assessment of Risk:		Severity	4	X	Likelihood	2	= Risk	8

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Additional Controls required	PPE/Equipment
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.	
No unauthorised people on site	
Extreme weather or site conditions - In both cases the Customer is responsible for maintaining a safe site and in in supervising and instruction the Crane Operator and Slinger/Spotter	
Where Time is critical - In both cases the Customer is responsible for maintaining a safe site and in in supervising and instruction the Crane Operator and Slinger/Spotter	
At least two people should be present when operating and moving the Crane and attachments. The Operator and Slinger/Spotter. Other people may be present, but they must be outside the Danger Area.	
All personnel involved must know where the Danger Area is and how to operate the Emergency Stop Buttons	

Assessment of Risk:	Severity	3	X	Likelihood	2	= Risk	6
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Approval and Review		
Prepared by:	Cathy Sheehan	23/05/2022
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 must not 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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