

Risk Assessment

RA106 - Changing of a Rope on a Rig



ABI Equipment Ltd	Creation Date: 01/09/2022
Changing a Rope on a Rig	

Main Hazards are:	
Injury from falling objects when removing rope from Rig .	Injury from whipping of loose rope
Unexpected or unskilled personnel in operating area	Injury from trips, slips and falls
Injury from manual handling including twisting, stooping, pushing, pulling, reaching upwards, carrying load long distances, repetitive handling and/or holding load away from body	Increased risk due to poor weather conditions
Risk of crushing or winding from	
Persons / Property affected	
All Employees	General Public
Visitors	

Assessment of Risk:	Severity	5	X	Likelihood	4	= Risk	20
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Control Measures already in Place	PPE Required
1. One person to be designated as having responsibility for the safety of the operation area.	Safety helmets <input checked="" type="checkbox"/>
2. The area where the rope is to be changed must be in a clear segregated area away from walkways, buildings and other equipment.	Hi-Vis Jackets <input type="checkbox"/>
3. Only approved personnel to be allowed in the designated safety area	Safety footwear <input checked="" type="checkbox"/>
4. A rope sock and tether rope to be attached to the end of the rope that will pass through the roller to prevent the rope snaking and whipping as it is removed and or installed	Eye protection <input checked="" type="checkbox"/>
5. The pulley must be inspected for any damage or wear to ensure there are no falling objects	Dust masks <input type="checkbox"/>
6. Correct PPE to be worn to protect against sparks	Ear plugs <input type="checkbox"/>
7. Two people are required to wind and unwind a rope	Earmuffs <input type="checkbox"/>
8. Care should be taken before the process begins to check the rope design, lay direction and rope diameter and to determine the course the rope will take to avoid leading the rope over sharp edges,	Gloves <input checked="" type="checkbox"/>
9. All heavy loads to be lifted by mechanical means whenever possible	Protective overalls <input checked="" type="checkbox"/>
10. Where the lifting & handling is repetitive mechanical means should be used	Gauntlets <input type="checkbox"/>
11. Assess all mechanical means for suitability and recent LOLER inspection.	Harnesses <input type="checkbox"/>
12. Avoid hazardous manual handling operations so far as is reasonably practicable	Breathing apparatus <input type="checkbox"/>
13. A specific risk assessment should be used for any hazardous manual operations that cannot be avoided	Face masks <input type="checkbox"/>
14. Reduce the risk of injury so far as is reasonably practicable	
15. Ensure staff have received adequate training in the effects of manual handling disorders and guidance on the correct techniques to avoid injury whilst handling heavy loads	
16. All staff to be trained in correct manual handling techniques and guidance weights and receive adequate training in the effects of manual handling disorders.	

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17. This risk assessment should be read in conjunction with RA004-0722-4.0 Working at Height (use of MEWPS)	
18. Additional care should be taken when handling the old rope as damaged wire strands may be sticking out	
19. After the new rope is installed the entire rope length should be moved under preload/	

Assessment of Risk:	Severity	4	X	Likelihood	3	= Risk	12
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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.	
This risk assessment should be read in conjunction with RA004-0722-4.0 Working at Height (use of MEWPS)	
The new rope should be fully wound on the reel and checked to ensure it has not been contaminated by soil & dirt.	
Direct communication must be maintained between the machine operator and maintenance staff to ensure the winding can be stopped in an emergency	
The operators manual section on ropes should be read before the rope change begins. The operators manual is kept inside the rig cab.	

Assessment of Risk:	Severity	3	X	Likelihood	2	= Risk	6
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Approval and Review		
Prepared by:	Cathy Sheehan	01/09/2022
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
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

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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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Prepared by	Cathy Sheehan
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