 <p>JAAR EXCAVATING HEALTH, SAFETY & ENVIRONMENTAL PROGRAM</p>	Section: Safe Job Practices and Procedure – Hoisting and Rigging for a Critical Lift					
	Initial HIRA score		15		Residual HIRA score	10
	Critical Task?	Yes	Location(s)	Jobsites	REVISION # 1	
	Description		Using hoisting and rigging equipment on sites for a lift defined as critical using the criteria below		# OF PAGES:	4

CRITICAL LIFT DEFINED

A lift is deemed critical when one or more of the following conditions are met:

- A lift over 8,000kg (this exceeds the typically safe load weight of most of our equipment),
- a tandem lift involving the simultaneous use of two or more cranes, hoists or other pieces of powered lifting equipment,
- a lift involving unstable pieces,
- a non-routine lift requiring detailed planning and additional or unusual safety precautions,
- any lift which the operator believes is critical.

Critical lifts are prone to more hazards and higher risks. A greater emphasis on planning is therefore required. A critical lift plan and hazard assessment are required before carrying out any critical lift.


SAFE WORK PRACTICES

General

- Inspect all hoisting and rigging equipment before use. All equipment should be marked using the current years tag. Tag and remove any defective equipment from service immediately
- Do not exceed the rate load capacity for any piece of equipment used in rigging or hoisting – If you do not know ask your supervisor
- Select the proper type of rigging device based on the task at hand –Do not use a webbed sling if there is a risk of sharp edges cutting it
- All loads must be secure before hoisting
- Keep clear of pinch points
- Only competent workers should be involved in hoisting and rigging

Cranes

- Cranes should only be set-up and operated by a competent worker with a valid ROT
- Ensure the crane is on a level surface before beginning work
- Critical lift forms should be completed before any crane lift
- Pre use inspection of the crane must be documented before beginning work
- Swampers and operators should establish communication systems before beginning any work

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Excavators

- Ensure the machine selected is capable of lifting the load
- Should only be operated by competent workers
- Pre use inspection required before any work is undertaken
- Make sure there are no overhead hazards in the lift path
- Signalers and operators should establish a communication system before beginning any work

Suspended loads

- Never leave the controls of a machine with a suspended load
- Loads should never be passed over workers below
- Lifts should be pre-planned with J-AAR supervision to try and keep foot traffic to a minimum

Staging areas

- The area under the lift should be danger taped off with adequate danger due to signs posted
- If necessary use a traffic control person to control pedestrian and vehicular traffic


Overhead hazards

- Ensure the minimum required distances are kept between equipment and power lines
- Always assume powerlines are live
- Use a spotter if necessary

External Factors

- Keep wind and weather in mind while planning lifts
- Do not lift if there is extreme weather

JOB HAZARD RISK ASSESSMENT			
Initial HIRA Score	Hazards	Controls	Residual HIRA Score
20	Electrical Overhead	<ul style="list-style-type: none"> All overhead hazards must be identified before the lift Use spotters to help avoid coming to close to lines 	10


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20	Falling Objects	<ul style="list-style-type: none"> • Ensure all workers involved in rigging are competent • Ensure no load is passed over a worker • If the load looks unbalanced as it comes off the ground stop the lift and re-rig 	5
20	Equipment overload/failure	<ul style="list-style-type: none"> • Ensure equipment selected is capable of lifting the load • Ensure all equipment/lifting devices have been inspected before use. • Equipment must be used within the operating parameters set out in the manufacturer's manuals 	5
20	Lack of training	<ul style="list-style-type: none"> • All workers must be competent for the tasks they are assigned • All crane operators must have valid ROT's in their possession • All equipment operators must be competent 	5
15	Improper maintenance	<ul style="list-style-type: none"> • All equipment must be maintained per manufacturer's instructions • All J-AAR equipment is subject to J-AAR's PM policy and procedure 	5

SAFE WORK PROCEDURES

Planning

1. Complete the critical lift plan
2. Ensure all required equipment and PPE determined in the hazard assessment is available
3. If any overhead hazards were identified – implement the necessary controls, including spotters

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4. Ensure all the selected equipment, machinery, and PPE is inspected before use. If anything is found to be defective tag it and remove it from service immediately
5. Danger tape off staging/lift areas and post danger due to signs as required
6. Ensure all workers involved in the task are competent
7. Spotters/Swampers and operators need to establish a means of communication

During the Task

1. Rig material and inspect connections before lifting
2. Hoist material slowly off the ground. Ensure load is balanced
3. Loads should never be passed overhead of a worker

Completion

1. Ensure all equipment and PPE is stored safely per manufacturer's instructions
2. Housekeeping as required