



**STOP** if not clear how to do the work

# Heavy Equipment Lifting | Critical Checklist



## When to use Important: Attach to completed JSA

### For lifting / hoisting of heavy equipment / materials except Critical Lifts:

- Using lifting devices: mobile crane, truck mounted crane
- Using straps or chains to lift with excavator, backhoe, skid steer or forklift

### Only 1 checklist is required for same day repeat lifts of similar loads

Use the **Critical Lifting Critical Checklist** if any of the following apply:

- Safety factor less than 25% (exceeds 75% of crane/excavator capacity)
- Safety factor less than 50% when lifting over critical lines/equipment
- Swing arc of boom does not meet minimum clearance for high voltage lines or conductors →
- Lift weight is greater than 5 tonnes
- Lift requires an engineering study with specifications & drawings per local regulations
- Lift requires two cranes

**Note: A Load Chart, listing the maximum gross loads at various radii and boom lengths, must be provided by the crane manufacturer. These capacities shall not be exceeded.**



Voltage (v)	Minimum Clearance (m)
750-150k	4.0
150k-250k	5.0
>250k-500k	6.0
>500k	7.0

To establish OH&S safe limits of approach to power lines, employers must consult the owner of the electrical utility system prior to any work within 7 m of an overhead power line.

Order Number:	Site Location:	
Contractor:	Date	
Description of work:		
Load Weight:	<b>For Crane Lift</b> Lift Radius:	Crane's rated capacity at lift radius:
What could go wrong?		

## BEFORE work begins | Complete all steps

Done

1. Operator is trained and competent in safe operation of crane or lifting device
2. Confirm adequate space for lift layout and swing radius, considering the load, crane capacity / configuration and any hazards
3. Work area is free from overhead and sideways obstructions
4. If voltage of electrical lines cannot be confirmed, swing radius of boom is >6 metres from high voltage lines or conductors
5. Lift equipment has been certified in the last year, in good condition, appropriate for the lift and meets manufacturer's specifications
6. Lift equipment is supported on a firm, stable base or foundation, outriggers fully extended and blocked, and positioned an appropriate distance from open excavation or potential underground hazard (sewers, utilities)
7. Lift apparatus (slings/straps/hooks/jibs) in good condition with suitable load rating
8. Equipment or materials to be lifted are stable, wrapped and tied, lifting apparatus is securely fixed and balanced, pallets used are fit for purpose
9. Erect proper barricades and ensure all persons kept a safe distance from lifting activity. Except person(s) receiving the load, no person under suspended load during lifting activity, including inside buildings
10. Equipment operator has a clear view of the work area or dedicated signaller / spotter is used and communication method with the signaller / spotter is defined and understood
11. Use tag line(s) / guide rope(s) for suspended loads
12. Good access and egress exists for workers, and for assistance in case of emergency



Name of equipment operator:	Signature:	Date:
Name of spotter:	Signature:	Date:

VER. P005-06-16 Use of this form is subject to applicable local laws/regulations, does not replace the need to use good judgment nor applicable practices, and does not in any way amend or modify or supersede the terms or conditions of any contract by and between Owner and contractor.