



Lift and load

The word **MUST** means it is a mandatory requirement. Where you see the words **YOUR CALL** it means you are strongly advised to do this, but you can use your judgement.



Planning

Crane operators **MUST** review lifts, including boom length/ angle, radius, gross capacity, net load weight, and travel path.

Documented lift plans **MUST** be developed for higher risk / complex lifts such as:

- panel installation
- lifting personnel in a lift cage
- erection of lifts with a tower crane
- working near live overhead power lines
- lifts > 85% rated lifting capacity.
- heavy lifts where load is greater than 50 tonnes
- lifting with two cranes
- lifting unbalanced objects.

Crane set-up

The crane location **MUST** be assessed for factors that may affect the cranes stability, increase any risk of collision, or contact with overhead powerlines.

- the crane standing area **MUST** be able to withstand the forces imposed on it.
- where required, engineered work platforms **MUST** be verified by a geotechnical engineer.

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A permit for work **MUST** be issued for mobile cranes and vehicle mounted cranes using outriggers.

Operating conditions

Load chart/s **MUST** be available in the crane cabin and operator's manual.

Daily pre-starts **MUST** be completed by crane operators and recorded in the crane's logbook.

A method of positive communication **MUST** be established (i.e., designated crane channel or recognised hand/ whistle signals)

Exclusion zones **MUST** be established around the crane working area.

Crane operations **MUST** not be carried out in wind speeds greater than 11km/hr.





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Lifting equipment

Lifting equipment **MUST** be:

- tagged and included in lifting equipment registers with the accompanying inspection records
- inspected as required by a competent person, they **MUST** be tagged or marked accordingly
- visually inspected prior to use and withdrawn from use when damaged
- all soft slings **MUST** be visually inspected prior to use.

Training and competency

Personnel involved in crane operations **MUST** hold the required qualifications for the tasks that they perform.

Crane operators **MUST** have documented evidence of familiarisation training on the crane being operated.

Trained and competent dog men are required for slinging all loads, and when directing crane operators when the load is out of view.



Falling objects

Controls **MUST** be in place to manage the risk of falling objects (i.e., preventing free-fall, or by object fall-arrest systems).

Where practicable, loads **MUST** not to be lifted over workers or public access areas.

If there is a risk of people being hit by a falling object, control measures such as exclusion zones, or suitably designed gantries **MUST** be used.

