

Safety Checklist

Mobile Crane Safety for PCBU's

This checklist can be used by principal contractors and site supervisors to manage the risks of mobile crane activities on construction sites.

Principal contractors and builders have a duty to provide and maintain a working environment that is safe and without risks to health and safety. This includes ensuring proper planning, consultation and communication, safe systems of work, the right safety equipment at the right time and plant that is adequately maintained.

The major risks related to mobile cranes include falling loads, roll/tip over and unintended contact with people or objects such as buildings, scaffolding and other cranes.

This mobile crane safety checklist is designed to help identify potential issues or risks associated with crane operations including planning, consultation and hazard identification, falling objects, site conditions, licence checks, log books and equipment maintenance. It is NOT intended to be exhaustive, and reference should be made to appropriate legislation, standards, Codes of Practice and Guides.



On-the-spot fines of up to \$3,600 for businesses and \$720 for individuals may be issued to those placing workers lives at risk by not adequately protecting them when working at heights, or for undertaking high risk work activities without holding the appropriate high risk work licence e.g. crane operations.

If you answer no to any of the following questions, you may be in breach of your duties under the work health and safety legislation, or its associated Codes of Practice.

PC / PCBU registered name:	Date:	Time:
Checklist completed by:	Position:	
Site address:		
Crane owner / company:		

Crane Pre-start Checks and Plant Maintenance Records		
Ask yourself these questions	Y	N
Is the mobile crane registered with SafeWork? (If over 10 tonne capacity)		
Is the crane logbook available and up to date?		
Are periodic maintenance inspections recorded? (Could be manually or digitally recorded)		
Is there evidence of the major service inspection being completed?		
Is the operator's manual with the crane?		
Is the load chart for the crane available to the operator?		
Has a pre-start check been completed, including testing emergency -stop button?		
Does the crane have a compliance plate? Serial number:		
Does the crane appear to be well serviced with no visual signs of damage/excessive wear around outriggers, boom/jib, winch rope/s, cabin, or operators' controls?		
Comments		

Mobile Crane Pre-Job Planning		
Ask yourself these questions	Y	N
Has the crane crew been inducted onto the site?		
Is there evidence of adequate consultation between the principal contractor, crane company and workers regarding job planning? (Consider loads to be lifted, lifting/landing zones, ground conditions and site setup)		
Have hazards within the load path been considered? (Overhead power lines clearances and surrounding structures)		
Did a representative from the crane company visit and assess the site prior to the crane arriving?		
Has a site-specific SWMS been prepared and do you have a copy of the crane SWMS?		
Have you ensured that there is a qualified person for the crane operations being undertaken? (Dual lifts, concrete tilt up panels, steel erection etc) e.g. Dogger, Rigger basic, intermediate, or advanced as applicable		
Is the crane appropriate for the radius and load of the proposed lifts?		
Has the safe system of work/plan been communicated with the workers onsite, including the crane operator, dogger(s) and truck drivers before they attend the site?		
Comments		

Mobile Crane Site Set-Up & Equipment		
Ask yourself these questions	Y	N
Is the crane standing suitable? (On solid ground with adequate space for outrigger extensions, packing under outriggers, hard wood timbers, road plates, adequate room for slewing and jib/boom movements)		
Are there adequate controls in place for overhead powerlines? (Clearance distances, energy supplier approvals, isolation, de-energised, tiger tails, close approach training for operators and spotters)		
Have underground services been identified and considered? (Dial before you dig, visual inspection, technical drawings to identify existing and new services, location of underground assets vs outrigger/wheel location)		
Has an engineer's report (structural or geotechnical) been prepared and available regarding the crane standing? (Suspended slab includes details of required slab capacity, back-propping, and outrigger positions, ground conditions including compaction rating)		
Have wind conditions been considered? (Type of load, source of wind data, crane fitted or handheld anemometer, BOM, wind conditions, controls, crane manufacturers wind limits)		
Is there an exclusion zone in place around the crane? (Personnel safety, crane protection from site traffic/plant collision -CPE, forklifts etc, traffic control, ROL's, TCP's, TMP's)		
Is the lifting equipment suitable for the loads to be lifted? (Within capacity including calculations for reductions due to chocked slings, sling angles or shape of the load, correct type i.e. chain (grade), wire, soft round, flat webbing and protection used against abrasive or sharp loads i.e. packing, protective corners, carpet, or similar materials)		
Has lifting equipment (slings, chains, etc) been inspected and in good working order? (Prior to use, periodically in line with industry standards (tagged accordingly, RuGBY), Independently inspected by a NATA agent)		
Is the safe system of work/plan e.g. lift plan, being followed on site?		
Comments		

More information

Safety information

SafeWork Australia 'Guide to Mobile Cranes'

SafeWork Australia 'General Guide for Cranes'

SafeWork Australia 'Guide to Inspecting and Maintaining Cranes'

SafeWork Australia 'Guide for Operating Cranes and Mobile Plant near Overhead Electric Lines'

[SafeWork NSW 'Roles and Responsibilities when hiring or using a mobile crane' Factsheet](#)

[Plant item registration](#)

[High Risk Work Licence](#)

[New HRW licence holder](#)

Codes of practice

[Work near overhead powerlines code of practice](#)

[Managing risks of plant in the workplace code of practice](#)

[How to manage work health and safety risks code of practice](#)

[Construction Work](#)

Australian Standards - Mobile Cranes

[Work near overhead powerlines code of practice](#)

[Managing risks of plant in the workplace code of practice](#)

[How to manage work health and safety risks code of practice](#)

[Construction Work](#)

Also see www.safework.nsw.gov.au or call 13 10 50.

Disclaimer

This publication may contain information about the regulation and enforcement of work health and safety in NSW. It may include some of your obligations under some of the legislation that SafeWork NSW administers. To ensure you comply with your legal obligations you must refer to the appropriate legislation.

Information on the latest laws can be checked by visiting the NSW legislation website www.legislation.nsw.gov.au

This publication does not represent a comprehensive statement of the law as it applies to particular problems or to individuals or as a substitute for legal advice. You should seek independent legal advice if you need assistance on the application of the law to your situation. This material may be displayed, printed and reproduced without amendment for personal, in-house or non-commercial use.

Catalogue No. SWNSW_33708_22
SafeWork NSW, 92-100 Donnison Street,
Gosford, NSW 2250
Locked Bag 2906, Lisarow, NSW 2252
Customer Experience 13 10 50
Website www.safework.nsw.gov.au
© Copyright SafeWork NSW 0321