

## **Inspection Checklist for a Mobile Crane or Boom Truck**

<b>1. Identification</b>			<b>REFERENCE</b>		
Prime contractor:		Site address:		<b>WCA 118</b>	
Contact person:	Phone #	Email:		<b>OHS 14.38(6)</b>	
Employer (crane owner):			<b>WCA 115(2)(e)</b>		
Contact person:	Phone #	Email:		<b>OHS 3.5</b>	
Crane operator:		Phone #			
Crane manufacturer:	Crane model:	Crane SN:		<b>OHS 14.3</b>	
Carrier manufacturer:	Carrier model:	Carrier LP #:		<b>OHS 14.3</b>	
Crane type: <input type="checkbox"/> Conventional crawler <input type="checkbox"/> Conventional truck mounted <input type="checkbox"/> Hydraulic crawler	<input type="checkbox"/> Hydraulic truck mounted <input type="checkbox"/> Rough terrain hydraulic <input type="checkbox"/> Carry deck <input type="checkbox"/> Articulating boom truck	<input type="checkbox"/> Telescopic boom truck <input type="checkbox"/> Sign truck <input type="checkbox"/> Other: <input type="checkbox"/> Other:			
<b>2. Documentation / Information</b>			<b>Yes</b>	<b>No</b>	<b>REFERENCE</b>
Crane annual inspection completed by P. Engineer, document and sticker available?					<b>OHS 14.71(1)</b>
Combination Crane Truck (boom truck) has Stability Test Completed? Must have a Professional Engineer's stamped/sealed document stating that unit has been tested as per ANSI/SAE B30.22-2005 (J765) Stability Testing Requirements. This document will state if the crane is safe to operate in all positions (360 degree) with the crane manufacturers supplied load chart or if the crane has a reduced capacity "Custom Load Chart" provided. See WorkSafe BC Guideline <b>G4.8 Rated Capacity of Truck-Mounted Cranes</b> .					<b>OHS 4.8(2)(a)</b> <b>OHS 14.(2)(1)</b> <b>ANSI/ASME B30.22-2005</b> <b>OHS 14.5(3)</b>
Crane operator qualifications, BC Association of Crane Safety certified (BC CraneSafe) or Trades Qualified (Red-Seal) certified?					<b>OHS 14.34(1)</b> <b>OHS 14.34.1(a)</b>
Crane manufacturer's manual/operators manual available at the work site?					<b>OHS 14.12</b>
Crane log book, start of shift crane inspection completed & signed? Checklist style?					<b>OHS 14.14(a)</b> <b>OHS 4.9(2)(b)</b>
Crane load chart is available for the boom, counterweight and outrigger/stabilizer position that the unit is set-up in?					<b>OHS 4.8</b> <b>OHS 4.9</b>
Crane set-up beside an excavation or on a concrete slab needs engineering?					<b>OHS 14.69(2)</b>
Crane on a floating support has the rated capacity (barge & crane) determined by a P. Eng.?					<b>OHS 14.66(3)</b>
Crane boom with vibratory extractor, drop hammer or dynamic compaction has a 1 month P. Engineer's boom inspection completed?					<b>OHS 14.72(1)</b>
Crane boom driving piles with vibratory hammer has a 3 month P. Engineer's boom inspection completed?					<b>OHSR 14.72(2)</b>
Obvious crane modification(s), structural (welding) repairs are certified by a P. Engineer?					<b>OHSR 14.15(2)</b>
Radio Contact for overlapping cranes, tower crane, pump truck or mobile equipment?					<b>OHS 14.49(1)</b>
Overhead power-lines considered? Procedure in place?					<b>OHS 14.52(1)</b>
30M33 assurance in writing available? Guarding installed?					<b>OHS 19.25</b>
Is a critical lift required? Tandem-lift, man-basket being used, lifts over power-lines, lifting a submerged load, 90% of crane capacity @ 50% boom length, load centre of gravity changing.					<b>OHS 14.42</b> <b>OHS 14.42(1)</b>
<b>3. Set-up, Maintenance and Use</b>			<b>Yes</b>	<b>No</b>	<b>REFERENCE</b>
Safe lifting, the crane tasks are being carried out safely? Crane set-up and hoisting area is flagged-off and all persons at this workplace regardless of their involvement in the hoisting duties are safe?					<b>OHS 14.38(6)</b> <b>OHS 14.40</b> <b>OHS 14.41</b> <b>OHS 14.44</b>
The crane operator has full control of the equipment controls & is engage in no other duties.					<b>OHS 14.37.1</b>

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<b>3. Set-up, Maintenance and Use Continued</b>	Yes	No	REFERENCE
Traffic control in place?			OHS 18.2
Crane outriggers/stabilizers are set on appropriate cribbing for the soil or base?			OHS 14.69(4)
Crane outrigger/stabilizer beams are marked to indicate correct extension is achieved?			OHS 14.67(2)
Crane outrigger/stabilizer floats (pads) are secured to jacks?			OHS 14.67(4)
Crane or carrier leveled for operation?			OHS 14.66(1)
Crane anti-two-block functioning when used to hoist a man-basket?			OHS 13.28(1)
Crane load cell (11 ton or greater capacity) or crane disengagement device functioning?			OHS 14.64 OHS 14.36(2)
Crane operator knows the weight of the load being hoisted?			OHS 14.36(1)
Boom angle indicator present and functioning?			OHS 14.7
Crane hoist line inspected for broken wires, crushing and correct drum spooling?			OHS 15.25
Fire extinguisher in crane cab? Minimum 10 BC rating?			OHS 14.33
Crane horn (auditable warning device) functional?			OHS 14.18
Crane controls are clearly marked for their function?			OHS 14.28
Rigging Inspected for certification (WLL), broken wires or crushing?			OHS 15.4(2) OHS 15.5(1) OHS 15.25
Chain sling(s) have been annually inspected & a record of the inspection (tag) is available.			OHS 15.50
<b>4. Crane Capacity Analysis</b>			
<b>LOAD INFORMATION</b>	<b>CRANE # 1</b>	<b>CRANE # 2</b>	
Load description:			
Load length:			
Load width/diameter:			
Load height:			
Hoisting up height:			
Load weight:			
Block or ball weight:			
Rigging weight:			
<b>GROSS LOAD WEIGHT =</b>			
<b>CRANE INFORMATION</b>	<b>CRANE # 1</b>	<b>CRANE # 2</b>	
Crane make/size/model:			
Crane boom length:			
Crane jib length:			
Crane counterweight:			
Crane radius (furthest load distance):			
Crane gross capacity:			
Crane component deductions: (jib, load line, rooster)			
Crane net capacity:			
<b>% OF CRANE CAPACITY =</b> (gross load weight / crane net cap X 100)			
Maximum crane radius allowed (from load chart):			

CSA - Z150-98, Safety Code on Mobile Cranes

ANSI/ASME - B30.22-2005, Safety Code on Articulating Boom Cranes

WorkSafe BC Guideline G4.8 Rated Capacity of Truck-Mounted Cranes

WorkSafe BC Guideline G14.34.1 Operator Certification