



MOBILE CRANE LOGBOOK

Permanent Record

This is a guide to assist in meeting the requirements of subsection 213.31(4) of *General Regulation 91-191* under the *Occupational Health and Safety (OHS) Act*.

This permanent record is to be kept with the machine at all times. The data enclosed should be supplemented with the manufacturer's specifications for the specific model of crane.

Crane Owner _____

Make of Crane _____

Unit No. _____

Model No. _____

Serial No. _____

Max. Rating _____

Table of Contents

WorkSafeNB Regional Offices	3
Interpretations of Act / Regulation	
• Definition – Hoisting Apparatus	4
• Competent Person - Yearly Inspection	5
Mobile Crane Inspection Requirements	
• Daily / Shift Inspection	6
• Annual Inspection	6
• Swivel, Hook, Hook Nut and Block.....	6
• Telescopic Boom Inspection.....	6
• Daily Mobile Crane Inspection	7
• Daily Visual Inspection Sheets	8

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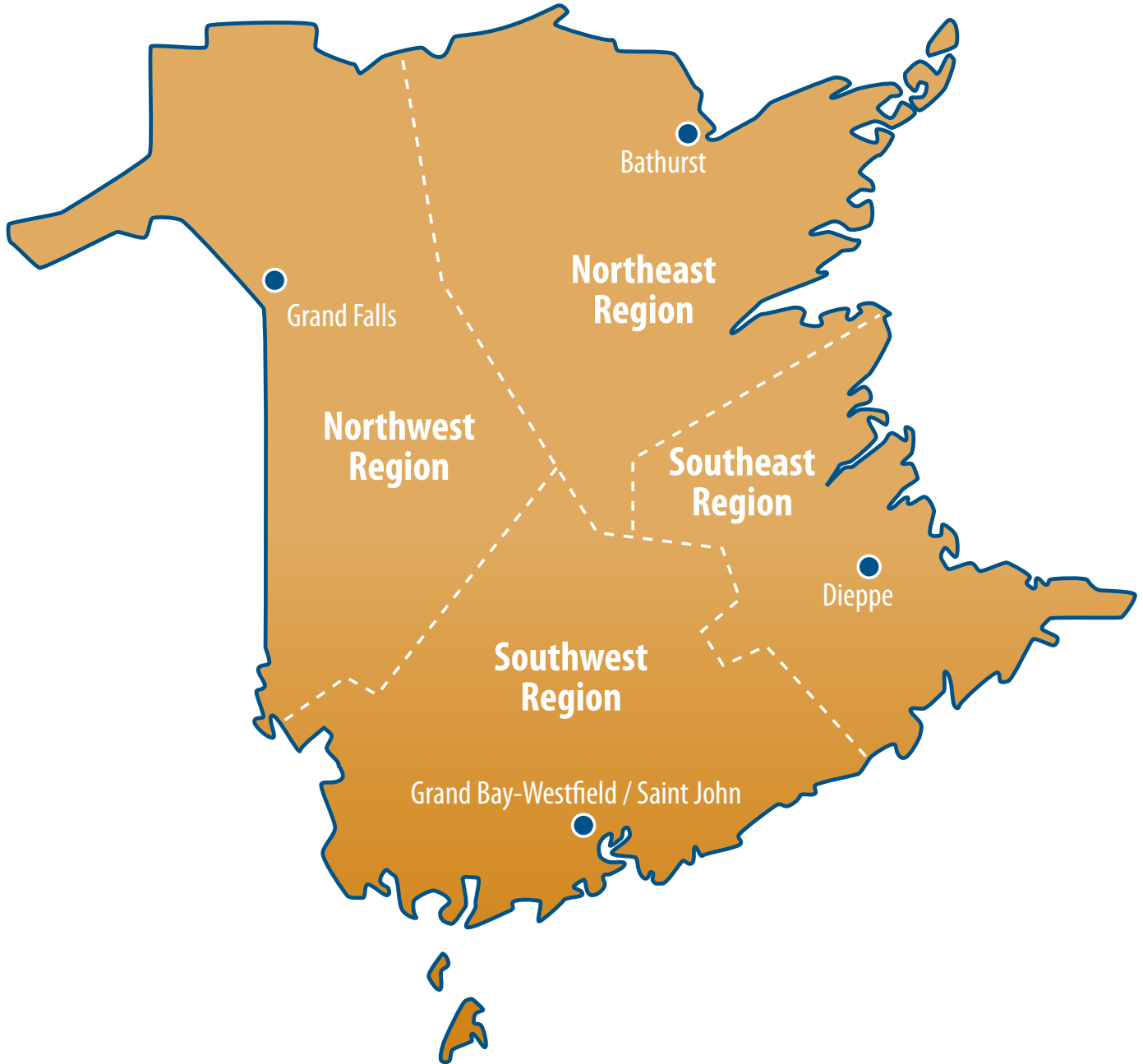
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LEGISLATIVE INTERPRETATIONS

Topic:	Interpretations of Act / Regulation	Issued by:	Legal Department
Statute:	<i>General Regulation 91-191</i>	Date Issued:	June 15, 2001
Section, subsection or paragraph:	Definition of “Hoisting Apparatus”	Date Revised:	

“Hoisting apparatus” means mobile cranes, tower cranes, electric overhead traveling cranes, vehicle hoists, winches, and other similar equipment, but does not include elevators, dumbwaiters, or mine hoists.

Question:

Do chainfalls with a two-ton capacity fall under the category of a hoisting apparatus? Do the people repairing this type of lifting equipment have to be certified by an agency or can a competent person repair chainfalls?

Answer:

A chainfall falls within the meaning of “other similar apparatus” in the definition of “hoisting apparatus”. Any device or piece of equipment used to lift or lower material or equipment is considered a hoisting apparatus. Examples include, but are not limited to:

- come-a-long used to lift
- jacks
- turfer
- lever-operated hoists
- hand chain hoists
- manual pullers

It should be noted that, since the June 2001 amendments, the exemption for hoisting apparatuses with a lifting capacity of less than 1,815 kg applies only to the logbook requirement.

Those who repair the equipment do not have to be certified by an agency but must be competent. A competent person would include a certified mechanic or a person who met the requirements of the definition of “competent” in *Regulation 91-191*.

LEGISLATIVE INTERPRETATIONS

Topic:	Interpretations of Act / Regulation	Issued by:	Legal Department
Statute:	<i>General Regulation 91-191</i>	Date Issued:	June 15, 2001
Section, subsection or paragraph:	Competent Person - Yearly Inspection	Date Revised:	

210.01(1) An employer shall ensure that a hoisting apparatus is inspected every 12 months by a competent person to ensure that the apparatus meets the manufacturer’s specifications.

Question:

Subsection 210.01(1) requires that a competent person inspect hoisting apparatuses annually and certify the apparatus meets the manufacturer’s specifications. How will you know if a person is competent to certify the hoisting apparatus?

Answer:

Competency requirements will vary with each type of equipment. However, since the *Regulation* makes reference to several Canadian Standards Association (CSA) standards that address this issue, WorkSafeNB will reference the requirements outlined in these standards for guidance.

Other standards such as the American National Standards Institute (ANSI) and the American Society of Mechanical Engineers (ASME), which cover types of hoisting apparatuses not covered by CSA, may also be used for guidance in determining competency.

It is recommended that employers, who are responsible for appointing competent inspectors, also follow these guidelines to assist them in ensuring their appointments are appropriate.

Mobile Crane Inspection Requirements

Daily / Shift Inspection

Mobile cranes must be inspected by the operator on a daily basis when in use as specified in subsections 213.31(1) and 213.31(2) of *General Regulation 91-191* with the results of the inspection recorded in a logbook as specified in subsection 213.31(4) of *General Regulation 91-191*.

Annual Inspection

An engineer or competent person supervised by an engineer shall inspect a mobile crane every 12 months and certify in writing that the apparatus meets the manufacturer's specifications as specified in subsection 213.21(1) of *Regulation 91-191*. This inspection must be completed in accordance with clauses 4.3.3.1, 4.3.4.1 and 4.3.5.1 of CSA standard Z150-98, "*Safety Code on Mobile Cranes*."

The results of the annual / periodic inspection including repairs, adjustments and other findings shall be included in the logbook and made available to an officer upon request.

General Regulation 91-191 defines competent as:

- (a) qualified, because of such factors as knowledge, training and experience, to do assigned work in a manner that will ensure health and safety of persons,
- (b) knowledgeable about the provisions of the *Act* and the regulations that apply to the assigned work, and
- (c) knowledgeable about potential or actual danger to health or safety connected with the assigned work.

Swivel, Hook, Hook Nut and Block Assembly Inspection

The swivel, hook, hook nut and block assembly of a mobile crane shall be inspected by a competent person in accordance with the time frames set out in subsection 207.2(2) of *General Regulation 91-191* and every five years thereafter. The inspection shall be completed in accordance with section 4.3.5.2 of CSA Standard Z150-98.

Telescopic Boom Inspection

Mobile cranes equipped with a telescopic boom shall have a complete structural inspection of the boom in accordance with the time frames set out in subsection 207.1(2) of *General Regulation 91-191* and every 10 years or 10,000 hours of service, whichever comes first. The inspection shall be completed in accordance with section 4.3.6 of CSA Standard Z150-98.

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Mobile Crane Inspection Requirements

Daily Mobile Crane Inspection

The items listed are intended as a guide for performing daily visual inspections on components that have a direct bearing on the safety of the crane and whose status may change with day to day use. The items listed, but not necessarily restricted to, shall be inspected for defects and observed during operation for defects that may occur.

For a complete inspection list of the unit in use, please consult the manufacturer's recommendations.

Operating controls	Check for maladjustment or malfunctioning, excessive wear and contamination of lubricants or other foreign matter and proper operating control identification.
Boom angle indicator	Ensure angle indicator is in view of operator and functioning properly.
Load charts	Ensure load charts are in place and readable from operator's station. Operator must be familiar in interpreting load charts.
Level indicator	Ensure crane is level, check level indicator or use hand level.
Safety devices	Check for malfunction of anti-two block system, motion sensors, moment load indicators, etc.
Wire ropes	Check load lines, jib suspension lines and boom hoist lines for broken strands, birdcaging, kinking or core protrusion.
Air/hydraulic components	Check for leaks in cylinders and hoses, hoses for blistering or abnormalities, drifting caused by fluid leakage, moisture accumulation and signs of excessive wear.
Electrical systems	Check for malfunction.
Hooks, hook blocks and swivels	Check for excessive wear, deformation, cracks and safety latch.
Clutches, brakes and locks	Check for malfunction.
Outriggers	Check for ability to retract and extend, ability to bear loads and for any structural damage.
Fluid levels	Check engine and hydraulic fluids for correct levels.
Boom and components	Check boom alignment and boom components for corroded, bent or deformed members.
Hoisting drums	Check for malfunction, correct spooling of cable on drum and ensure at least two full wraps on drum when hook is in extreme low position or as per manufacturer's specifications.
Turntable	Check for malfunction, smooth start and stop and for loose bolts and damaged rollers.

Mobile Crane Inspection Requirements

Daily Visual Inspection

Operator must visually inspect the mobile crane daily in accordance with subsection 213.31(1) of *General Regulation 91-191*.

Indicate inspected items with a check. ✓

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