

Reference	Item	Change	Date in Effect	2023 BlueBook Content	Updated Content
Occupational Health and Safety Act, R.S.O. 1990, c. O.1	PART IX OFFENCES AND PENALTIES	Substitution	26-Oct-23	66 (2) If a corporation is convicted of an offence under subsection (1), the maximum fine that may be imposed upon the corporation is \$1,500,000. 2022, c. 7, Sched. 4, s. 2 (2).	66 (2) If a corporation is convicted of an offence under subsection (1), the maximum fine that may be imposed upon the corporation is \$2,000,000. 2022, c. 7, Sched. 4, s. 2 (2); 2023, c. 15, Sched. 5, s. 1.
ONTARIO REGULATION 420/21	NOTICES AND REPORTS UNDER SECTIONS 51 TO 53.1 OF THE ACT — FATALITIES, CRITICAL INJURIES, OCCUPATIONAL ILLNESSES AND OTHER INCIDENTS	Addition	01-Jan-24		4 (3) (2) (xii) there is a failure to control a crane or a load, including any rigging failure, except where permitted under section 162 of Ontario Regulation 213/91 (Construction Projects) made under the Act.
ONTARIO REGULATION 420/21	NOTICES AND REPORTS UNDER SECTIONS 51 TO 53.1 OF THE ACT — FATALITIES, CRITICAL INJURIES, OCCUPATIONAL ILLNESSES AND OTHER INCIDENTS	Addition	01-Jan-24		5 (1) (a.1) the incident occurs at a workplace where Ontario Regulation 213/91 (Construction Projects) made under the Act applies and involves a failure to control a crane or a load, including any rigging failure, except where permitted under section 162 of that Regulation;
ONTARIO REGULATION 213/91	CONSTRUCTION PROJECTS	Addition	01-Jan-24		1 (1) “self-erecting tower crane” means a tower crane that is capable of being erected without the use of ancillary equipment; (“grue à tour à montage autonome”)

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ONTARIO REGULATION 213/91	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	1 (1.1) Every non-destructive test required by this Regulation shall be carried out and interpreted by a person who has been certified by Natural Resources Canada to the appropriate level in accordance with CAN/CGSB Standard 48.9712-2014, Non-destructive Testing – Qualification and Certification of Personnel. O. Reg. 242/16, s. 2 (5).	1 (1.1) Every non-destructive test required by this Regulation shall be carried out and interpreted by a person, (a) who has been certified by Natural Resources Canada to the appropriate level in accordance with the version of the CAN/CGSB Standard 48.9712-2014, Non-destructive Testing — Qualification and Certification of Personnel, as it may be amended from time to time, that was in effect at the time of certification; and (b) whose certification described in clause (a) is valid at the time the test is carried out and interpreted. O. Reg. 241/23, s. 1 (2).
ONTARIO REGULATION 213/91	CONSTRUCTION PROJECTS	Revoked	01-Jan-24	40 (1) (c) an excavation. O. Reg. 213/91, s. 40 (1); O. Reg. 142/17, s. 8.	
ONTARIO REGULATION 213/91	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	40 (3) (b) that are to be used at the edge of a floor, a roof, an excavation or an opening in a floor or roof; and	40 (3) (b) that are to be used at the edge of a floor, a roof or an opening in a floor or roof; and
ONTARIO REGULATION 213/91	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	40 (3) (c) that are to be used at the edge of a floor, a roof, an excavation or an opening in a floor or roof; and	40 (3) (c) that are to be used at the edge of a floor, a roof or an opening in a floor or roof; and
ONTARIO REGULATION 213/91	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	102 (d) a crane or other similar hoisting device with its load raised. O. Reg. 213/91, s. 102.	102 (d) Subject to section 164, a crane or other similar hoisting device with its load raised. O. Reg. 213/91, s. 102.
ONTARIO REGULATION 213/91	CONSTRUCTION PROJECTS	Revoked	01-Jan-24	106 (2) (b) shall be in full view of the operator of the vehicle, machine or equipment, crane or similar hoisting device, shovel, backhoe or similar excavating machine;	

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ONTARIO REGULATION 213/91	CONSTRUCTION PROJECTS	Addition	01-Jan-24		106 (2.1) A signaller shall, where practicable, be in full view of the operator of the vehicle, machine or equipment, crane or similar hoisting device, shovel, backhoe or similar excavating machine and, where not practicable, the employer shall provide another means of ensuring clear and direct communication from any signallers to the operator. O. Reg. 241/23, s. 4 (2).
ONTARIO REGULATION 213/91	CONSTRUCTION PROJECTS	Addition - after Section Heading "Cranes, Hoisting and Rigging"	01-Jan-24		149.1 In sections 150 to 164, "CSA Standard Z248-17" means CSA Standard Z248-17, Code for Tower Cranes; ("norme CSA Z248-17") "CSA Standard Z150-16" means CSA Standard Z150-16, Safety Code on Mobile Cranes; ("norme CSA Z150-16") "CSA Standard Z150.3-17" means CSA Standard Z150.3-17, Safety Code on Articulating Boom Cranes. ("norme CSA Z150.3-17") O. Reg. 241/23, s. 5.
ONTARIO REGULATION 213/91	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	150 (1) (a) hoisting engineer — mobile crane operator 1, if the worker is operating a crane or similar hoisting device capable of raising, lowering or moving any material that weighs more than 30,000 pounds;	150 (1) (a) hoisting engineer — mobile crane operator 1, if the worker is operating a mobile crane or similar hoisting device capable of raising, lowering or moving any material that weighs more than 30,000 pounds;
ONTARIO REGULATION 213/91	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	150 (1) (b) hoisting engineer — mobile crane operator 1 or hoisting engineer — mobile crane operator 2, if the worker is operating a crane or similar hoisting device capable of raising, lowering or moving only material that weighs more than 16,000 pounds but no more than 30,000 pounds; or	150 (1) (b) hoisting engineer — mobile crane operator 1 or hoisting engineer — mobile crane operator 2, if the worker is operating a mobile crane or similar hoisting device capable of raising, lowering or moving only material that weighs more than 16,000 pounds but no more than 30,000 pounds; or

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ONTARIO REGULATION 213/91	CONSTRUCTION PROJECTS	Revoked	01-Jan-24	150 (1.1) Subsection (1) does not apply when a worker is using excavation equipment to place pipes into a trench. O. Reg. 631/94, s. 3.	
ONTARIO REGULATION 213/92	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	<p>150 (2) No worker shall operate a crane or similar hoisting device, other than one described in subsection (1), unless,</p> <p>(a) the worker has written proof of training indicating that he or she is trained in the safe operation of the crane or similar hoisting device; or</p> <p>(b) the worker is being instructed in the operation of the crane or similar hoisting device and is accompanied by a person who meets the requirements of clause (a). O. Reg. 213/91, s. 150 (2).</p>	<p>150 (2) No worker shall operate a crane or other hoisting device, other than one described in subsection (1), unless,</p> <p>(a) the worker is trained in the safe operation of the crane or other hoisting device; or</p> <p>(b) the worker is being instructed in the operation of the crane or other hoisting device and is accompanied by a person who meets the requirements of clause (a). O. Reg. 241/23, s. 6 (3).</p>
ONTARIO REGULATION 213/93	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	150 (3) A worker shall carry his or her proof of training while operating a crane or similar hoisting device. O. Reg. 213/91, s. 150 (3).	150 (3) A worker shall carry the worker's written proof of training while operating a crane or other hoisting device. O. Reg. 241/23, s. 6 (3).
ONTARIO REGULATION 213/94	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	151 (1) No crane or similar hoisting device shall be subjected to a load greater than its rated load-carrying capacity. O. Reg. 213/91, s. 151 (1).	151 (1) No crane or similar hoisting device shall be subjected to a load greater than its rated load-carrying capacity, other than during load tests required by the manufacturer. O. Reg. 241/23, s. 7 (1).
ONTARIO REGULATION 213/95	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	151 (2) (a) for a mobile crane, Canadian Standards Association Standard Z150-1974 Safety Code for Mobile Cranes; and	151 (2) (a) for a mobile crane, CSA Standard Z150-16 or CSA Standard Z150.3-17; and
ONTARIO REGULATION 213/96	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	151 (2) (b) for a tower crane, Canadian Standards Association Standard Z248-1976 Code for Tower Cranes. O. Reg. 213/91, s. 151 (2); O. Reg. 375/22, s. 5.	151 (2) (b) for a tower crane, CSA Standard Z248-17.

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ONTARIO REGULATION 213/97	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	<p>151 (3) Every crane or similar hoisting device shall have affixed to it a load rating plate,</p> <p>(a) that the operator can read while at the controls; and</p> <p>(b) that contains enough information for the operator to determine the load that can be lifted for each configuration of the crane. O. Reg. 213/91, s. 151 (3).</p>	<p>151 (3) Every crane or similar hoisting device shall have affixed to it,</p> <p>(a) a load rating chart that the operator can read while at the controls that contains enough information for the operator to determine the load that can be lifted for each configuration of the crane or hoisting device; or</p> <p>(b) a plate with the crane model and serial number or other traceable method that can be used in conjunction with crane-specific load charts that the operator can read while at the controls of the crane while it is in use. O. Reg. 241/23, s. 7 (3).</p> <p>(3.1) If an operator is using a remote control device, they shall have access to a load rating chart at all times. O. Reg. 241/23, s. 7 (3).</p>
ONTARIO REGULATION 213/98	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	<p>151 (4) A luffing boom crane, other than a tower crane, shall have affixed to it a boom angle indicator that the operator can read while at the controls. O. Reg. 213/91, s. 151 (4).</p>	<p>151 (4) A luffing boom crane shall have a boom angle indicator that the operator can read while at the controls. O. Reg. 241/23, s. 7 (4).</p>
ONTARIO REGULATION 213/99	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	<p>152. (1) The owner of a crane or similar hoisting device shall keep a permanent record of all inspections of, tests of, repairs to, modifications to and maintenance of the crane or similar hoisting device. O. Reg. 213/91, s. 152 (1).</p> <p>(2) The owner of a crane or similar hoisting device shall prepare a log book for it for use at a project that shall include the record referred to in subsection (1) covering the period that is the greater of,</p>	<p>152. (1) The owner of a crane or similar hoisting device shall keep an owner's crane log consisting of a record of all inspections of, tests of, repairs to, modifications to and maintenance of the crane or similar hoisting device. O. Reg. 241/23, s. 8.</p> <p>(2) If the owner's crane log does not include all the information required under subsection (1), the owner shall ensure that, before a crane is put into service at a project, an inspection of the crane or similar hoisting device is completed pursuant to the</p>

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				<p>(a) the immediately preceding twelve months; and</p> <p>(b) the period the crane or similar hoisting device is on the project. O. Reg. 213/91, s. 152 (2).</p> <p>(3) The log book shall be kept with the crane or similar hoisting device. O. Reg. 213/91, s. 152 (3).</p> <p>(4) The owner of a crane or similar hoisting device shall retain and make available to the constructor on request copies of all log books and records for the crane or similar hoisting device. O. Reg. 213/91, s. 152 (4).</p>	<p>inspection requirements for tower cranes in clause 6.4.7 of CSA Standard Z248-17 and the inspection requirements for mobile cranes in clause 5.3.5 of CSA Standard Z150-16, as applicable, and the results of the inspection shall be added to the owner's crane log. O. Reg. 241/23, s. 8.</p> <p>(3) Before a crane or similar hoisting device is put into service at a project, the owner of the crane or similar hoisting device shall provide to the operator,</p> <p>(a) a record of the information referred to in subsection (1) for at least the previous 12 months; and</p> <p>(b) an operator's crane log to be used for the period that the crane or similar hoisting device is at the project. O. Reg. 241/23, s. 8.</p> <p>(4) While a crane or similar hoisting device is at a project, the operator of the crane or similar hoisting device shall keep an operator's crane log consisting of a record of all inspections of, tests of, repairs to, modifications to and maintenance of the crane or similar hoisting device. O. Reg. 241/23, s. 8.</p> <p>(5) The operator's crane log shall be,</p> <p>(a) kept with the crane or similar hoisting device while it is at the project;</p> <p>(b) transferred to the owner for addition to the owner's crane log after the crane has been dismantled or removed from the project. O. Reg. 241/23, s. 8.</p> <p>(6) The owner of a crane or similar hoisting device shall retain the owner's crane log and</p>

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					make a copy of it available to the constructor, employer and any persons designated by the constructor or the employer, on request. O. Reg. 241/23, s. 8.
ONTARIO REGULATION 213/100	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	153. (1) No worker shall use as a workplace a platform, bucket, basket, load, hook, sling or similar device that is capable of moving and is supported by a cable attached to the boom of a crane or similar hoisting device, except in accordance with this section. O. Reg. 631/94, s. 4.	153 (1) No worker shall use as a workplace a platform, bucket, basket, load, hook, sling or similar device that is capable of moving and is suspended from or supported by a direct attachment to the boom of a crane or similar hoisting device, or supported by a cable attached to a crane or similar hoisting device, except in accordance with this section. O. Reg. 241/23, s. 9 (1).
ONTARIO REGULATION 213/101	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	153 (2) (b) (iii) is equipped with more than one means of suspension or support,	153 (2) (b) (iii) is equipped with a secondary means of suspension or support that is secured above the hook and does not impede the hoist line.
ONTARIO REGULATION 213/102	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	153 (2) (c) (iv) has a revised load rating chart prepared by an engineer in accordance with good engineering practice and affixed in a conspicuous place on the crane,	153 (2) (c) (iv) has a revised load rating chart prepared by an engineer in accordance with good engineering practice that is affixed to the crane or otherwise available to the operator at the controls of the crane while in use.
ONTARIO REGULATION 213/103	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	153 (9) A competent worker shall visually inspect the crane's structural elements and the rigging equipment for defects before each use of the crane. O. Reg. 631/94, s. 4.	153 (9) A competent worker shall inspect the crane's structural elements and the rigging equipment for defects before each use of the crane. O. Reg. 631/94, s. 4.
ONTARIO REGULATION 213/104	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	153 (11) Before beginning any hoisting operation under this section, the constructor shall notify by telephone an inspector in the office of the Ministry of Labour nearest to the project. O. Reg. 631/94, s. 4.	153 (11) Before beginning any hoisting operation under this section for the first time at a project, the constructor shall notify an inspector at the Ministry office located nearest to the project. O. Reg. 241/23, s. 9 (5).

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ONTARIO REGULATION 213/105	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	154. (1) A crane or similar hoisting device shall be set up, assembled, extended and dismantled only by a competent worker acting in accordance with the written instructions of the manufacturer and in such a manner as to not endanger any person or property. O. Reg. 213/91, s. 154 (1).	154. (1) A crane or similar hoisting device shall be set up, assembled, climbed, erected, extended and dismantled only by a competent worker acting in accordance with the written instructions of the manufacturer and in such a manner as to not endanger any person or property. O. Reg. 213/91, s. 154 (1).
ONTARIO REGULATION 213/106	CONSTRUCTION PROJECTS	Addition	01-Jan-24		154 (4) Every portable or removable counterweight, test block and ballast used on a crane must be accurately weighed and have their weight clearly marked on them. O. Reg. 241/23, s. 10 (2).
ONTARIO REGULATION 213/107	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	156. An outrigger or stabilizing device used on a crane or similar hoisting device, (a) shall be extended to meet load capacity chart requirements; and (b) shall rest on blocking able to support the crane or similar hoisting device and its maximum load without failure or without deformation or settlement which affects its stability. O. Reg. 213/91, s. 156.	156. An outrigger or stabilizing device used on a crane or other hoisting device, (a) shall be extended to meet load rating chart requirements; (b) shall rest on blocking able to support the crane or other hoisting device and its maximum load without failure and without deformation or settlement which affects its stability; and (c) shall be set up only after the ground bearing pressure has been considered by the operator. O. Reg. 241/23, s. 11.
ONTARIO REGULATION 213/108	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	157. (1) No tower crane shall be erected at a project except in accordance with this section. O. Reg. 213/91, s. 157 (1). (2) The foundations supporting a tower crane shall be designed by an engineer in accordance with the crane manufacturer's specifications and shall be constructed in accordance with the design. O. Reg. 213/91, s. 157 (2); O. Reg. 375/22, s. 5.	157. (1) A tower crane, other than a tower crane mounted on a travelling base using a travelling undercarriage or a self-erecting tower crane that does not require foundations, shall be erected at a project in accordance with this section. O. Reg. 241/23, s. 12. (2) The foundation, shoring and bracing that support a tower crane or tie it in place shall

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				<p>(3) The shoring and bracing that support a tower crane or tie it in place shall be designed by an engineer in accordance with the crane manufacturer's specifications and shall be installed in accordance with the design. O. Reg. 213/91, s. 157 (3); O. Reg. 375/22, s. 5.</p> <p>(4) The structural engineer responsible for the structural integrity of the building or structure shall review the design drawings for the foundation, shoring and bracing for a tower crane before the crane is erected at a project to ensure the structural integrity of the building or structure. O. Reg. 213/91, s. 157 (4).</p> <p>(5) The structural engineer who reviews the design drawings shall sign the drawings upon approving them. O. Reg. 213/91, s. 157 (5).</p> <p>(6) The constructor shall keep at the project while a tower crane is erected a copy of the signed design drawings for its foundation, shoring and bracing and any written opinion about the drawings by a structural engineer. O. Reg. 213/91, s. 157 (6).</p>	<p>be,</p> <p>(a) designed by an engineer in accordance with the crane manufacturer's specifications, if any; and</p> <p>(b) constructed, installed and dismantled in accordance with the design drawings, subject to any deviations approved in writing by an engineer. O. Reg. 241/23, s. 12.</p> <p>(3) The engineer who prepares the foundation design drawings shall consider the tower crane ground bearing pressure in preparing the drawings. O. Reg. 241/23, s. 12.</p> <p>(4) Where a building or structure is supporting the tower crane, the engineer responsible for the structural integrity of the building or structure shall review the design drawings for the foundation, shoring and bracing for the tower crane before the crane is erected on a project to ensure the structural integrity of the building or structure. O. Reg. 241/23, s. 12.</p> <p>(5) An engineer shall sign the design drawings for the foundation, shoring and bracing for a tower crane upon approving them. O. Reg. 241/23, s. 12.</p> <p>(6) The constructor shall keep at the project a copy of the signed design drawings for the foundation, shoring and bracing for a tower crane and any written opinion about the drawings by an engineer. O. Reg. 241/23, s. 12.</p> <p>(7) An engineer shall,</p> <p>(a) inspect the foundation supporting a tower</p>

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					<p>crane before the concrete is poured and prepare a written report; and</p> <p>(b) confirm that the foundation or support surface complies with the foundation design drawings, subject to any deviations from the design drawings approved in writing by an engineer. O. Reg. 241/23, s. 12.</p> <p>(8) The written report required under clause (7) (a) shall be kept at the project while the tower crane is on the project. O. Reg. 241/23, s. 12.</p> <p>(9) A tower crane may not be erected until the concrete foundation reaches the strength specified in the design drawings for the foundation. O. Reg. 241/23, s. 12.</p> <p>(10) The shoring and bracing that support a tower crane or tie it in place must be inspected by an engineer after the shoring and bracing or the tie-ins have been installed and before the crane is put into service for the first time at a project. O. Reg. 241/23, s. 12.</p> <p>(11) An engineer shall prepare a written report of the inspection required under subsection (10), which shall include confirmation of whether the shoring, bracing and tie-ins have been installed in accordance with the design drawings, subject to any deviations approved in writing by an engineer and, where a building or structure is supporting the tower crane, whether the building or structure has reached sufficient strength to resist the crane reactions. O. Reg. 241/23, s. 12.</p> <p>(12) The written report prepared shall indicate any circumstances that would</p>

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					<p>require additional inspections of the shoring, bracing and tie-ins by an engineer after the initial inspection required under subsection (10). O. Reg. 241/23, s. 12.</p> <p>(13) After the initial inspection required under subsection (10), the shoring and bracing components and tie-ins installed for the climbing operation shall be inspected by a competent worker,</p> <p>(a) unless otherwise specified by the engineer in the written report required under subsection (11), before and after each climbing operation of the crane, to ensure the shoring and bracing components and tie-ins have been installed in accordance with the foundation design drawings; and</p> <p>(b) weekly after each climbing operation to ensure all the installed shoring and bracing components and tie-ins are in place. O. Reg. 241/23, s. 12.</p> <p>(14) Each major component used for shoring the tower crane shall be marked by a conspicuous label stating that the component shall not be removed or repositioned unless authorized by an engineer. O. Reg. 241/23, s. 12.</p> <p>157.1 (1) A tower crane shall be,</p> <p>(a) erected plumb to a tolerance of 1:500 unless otherwise specified by the manufacturer; and</p> <p>(b) plumbed while balanced and then held in the plumbed condition by wedges or other means, initially when it is set up and again after each climb. O. Reg. 241/23, s. 12.</p>



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					<p>Note: On January 1, 2025, the Regulation is amended by adding the following sections: (See: O. Reg. 241/23, s. 13)</p> <p>157.2 A tower crane shall be erected, dismantled and climbed in accordance with the following clauses of CSA Standard Z248-17:</p> <ol style="list-style-type: none"> 1. Clause 5.1, Crane erection crew. 2. Clause 5.8, Erection, climbing, and dismantling equipment. 3. Clause 5.9, General erection, climbing, and dismantling procedure. O. Reg. 241/23, s. 13. <p>157.3 (1) Each component of a tower crane manufactured on or after January 1, 2025, must be designed to meet the standards set out in the Table to this section. O. Reg. 241/23, s. 13.</p> <p>(2) If a tower crane manufactured before January 1, 2025 does not meet the standards set out in the Table to this section, or equivalent standards as determined by an engineer, the crane shall not be used until an engineer verifies that the crane has been modified to meet those standards. O. Reg. 241/23, s. 13.</p> <p>TABLE O. Reg. 241/23, Table.</p> <table border="1" data-bbox="1444 1300 1990 1438"> <thead> <tr> <th data-bbox="1444 1300 1528 1438">Item</th> <th data-bbox="1528 1300 1703 1438">Column 1 Component</th> <th data-bbox="1703 1300 1990 1438">Column 2 Minimum design standards</th> </tr> </thead> <tbody> <tr> <td data-bbox="1444 1438 1528 1546"></td> <td data-bbox="1528 1438 1703 1546"></td> <td data-bbox="1703 1438 1990 1546"></td> </tr> </tbody> </table>	Item	Column 1 Component	Column 2 Minimum design standards			
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					<table border="1"> <tr> <td data-bbox="1444 185 1524 418">1.</td> <td data-bbox="1524 185 1696 418">Crane design</td> <td data-bbox="1696 185 2001 418">Clauses 4.1 to 4.25 of CSA Standard Z248-17, or European Standard EN 14439:2006+A2:2009</td> </tr> <tr> <td data-bbox="1444 418 1524 591">2.</td> <td data-bbox="1524 418 1696 591">Electrical</td> <td data-bbox="1696 418 2001 591">Electrical Safety Authority SPEC-009 R0, Electrical Safety for Tower Cranes</td> </tr> <tr> <td data-bbox="1444 591 1524 699">3.</td> <td data-bbox="1524 591 1696 699">Control systems</td> <td data-bbox="1696 591 2001 699">Clause 4.21 of CSA Standard Z248-17</td> </tr> </table>	1.	Crane design	Clauses 4.1 to 4.25 of CSA Standard Z248-17, or European Standard EN 14439:2006+A2:2009	2.	Electrical	Electrical Safety Authority SPEC-009 R0, Electrical Safety for Tower Cranes	3.	Control systems	Clause 4.21 of CSA Standard Z248-17
1.	Crane design	Clauses 4.1 to 4.25 of CSA Standard Z248-17, or European Standard EN 14439:2006+A2:2009												
2.	Electrical	Electrical Safety Authority SPEC-009 R0, Electrical Safety for Tower Cranes												
3.	Control systems	Clause 4.21 of CSA Standard Z248-17												
ONTARIO REGULATION 213/109	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	<p>158. (1) Before a tower crane is erected at a project, an engineer shall ensure that the structural elements and components of the crane be subjected to non-destructive testing to ensure the structural integrity of the crane. O. Reg. 242/16, s. 16; O. Reg. 375/22, s. 5.</p> <p>(2) The engineer conducting an inspection or under whose direction an inspection is done shall prepare a written report of the test results. O. Reg. 213/91, s. 158 (2); O. Reg. 85/04, s. 17; O. Reg. 375/22, s. 5.</p> <p>(3) The constructor shall keep the report at the project while the crane is erected. O. Reg. 213/91, s. 158 (3).</p>	<p>158. (1) An engineer shall ensure that a tower crane's structural elements, its electrical, mechanical and hydraulic components, and its control systems, are inspected in accordance with the performance standards for inspecting a tower crane as prescribed by Ontario Regulation 260/08 (Performance Standards) made under the Professional Engineers Act, and that any defects are identified, at the following times:</p> <p>1. For a tower crane other than a self-erecting tower crane,</p> <p>i. before the crane is erected at a project,</p> <p>ii. after the crane is erected and before it is used, and</p> <p>iii. thereafter at intervals not greater than 12 months or as often as is recommended by the crane manufacturer, whichever is more frequent, while the tower crane is erected at a project.</p>									

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					<p>2. For a self-erecting tower crane,</p> <p>i. before the crane is put into service for the first time, and</p> <p>ii. thereafter at intervals not greater than 12 months while the crane is in use at a project, after every 12 erections of the crane or as often as is recommended by the crane manufacturer, whichever occurs first. O. Reg. 241/23, s. 14.</p> <p>(2) The inspection of structural components must include non-destructive testing to ensure the structural integrity of the crane. O. Reg. 241/23, s. 14.</p> <p>(3) The engineer conducting the inspection or under whose direction an inspection is done shall prepare a written report of the inspection and test results in accordance with the performance standards for inspecting a tower crane as prescribed by Ontario Regulation 260/08, including confirmation that all components are in adequate condition. O. Reg. 241/23, s. 14.</p> <p>(4) A tower crane shall not be used until,</p> <p>(a) any defects identified in the inspection have been corrected or repaired in accordance with the instructions of the tower crane manufacturer or an engineer; and</p> <p>(b) the tower crane has been inspected by an engineer and the engineer has prepared a written report of the corrections, repairs and results of the inspection confirming that any defects identified have been corrected or repaired and that the corrected or</p>

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					repaired components are in adequate condition. O. Reg. 241/23, s. 14.
ONTARIO REGULATION 213/110	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	<p>159. (1) An engineer or a competent worker designated by an engineer shall visually inspect for defects the structural elements and components of a tower crane,</p> <p>(a) after the crane is erected and before it is used; and</p> <p>(b) after the inspection under clause (a), at intervals not greater than twelve months. O. Reg. 213/91, s. 159 (1); O. Reg. 375/22, s. 5.</p> <p>(2) No tower crane shall be used until any defects found during an inspection are repaired in accordance with the instructions of the crane's manufacturer or an engineer. O. Reg. 213/91, s. 159 (2); O. Reg. 375/22, s. 5.</p> <p>(3) An engineer or a competent worker designated by an engineer shall inspect a tower crane that has been repaired to ensure that the defects are corrected. O. Reg. 213/91, s. 159 (3); O. Reg. 375/22, s. 5.</p> <p>(4) The engineer conducting an inspection or under whose direction the inspection is done shall prepare a written report of the test results. O. Reg. 213/91, s. 159 (4); O. Reg. 85/04, s. 18; O. Reg. 375/22, s. 5.</p> <p>(5) The constructor shall keep the report at a project while the crane is erected. O. Reg. 213/91, s. 159 (5).</p>	<p>159. (1) An engineer shall ensure that the climbing system for a tower crane is inspected in accordance with the performance standards for inspecting a tower crane as prescribed by Ontario Regulation 260/08 (Performance Standards) made under the Professional Engineers Act,</p> <p>(a) prior to the initial climbing operation of the tower crane at the project; and</p> <p>(b) thereafter at intervals not greater than 12 months while the tower crane is erected at a project. O. Reg. 241/23, s. 14.</p> <p>(2) The engineer conducting the inspection or under whose direction an inspection is done shall prepare a written report of the inspection in accordance with the performance standards for inspecting a tower crane as prescribed by Ontario Regulation 260/08, including confirmation that all components are in adequate condition. O. Reg. 241/23, s. 14.</p> <p>Note: On January 1, 2025, the Regulation is amended by adding the following section: (See: O. Reg. 241/23, s. 15)</p> <p>159.1 (1) An engineer shall ensure that a tower crane's structural elements, its electrical, mechanical and hydraulic components and its control systems that may affect the structural integrity, stability or motion of a tower crane or its load are inspected in accordance with subsection (2),</p> <p>(a) before the tower crane is erected at a project, if 10 years have elapsed since the</p>

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					<p>time the tower crane was manufactured; and</p> <p>(b) thereafter at least once every 10 years after the date of the last inspection under this section before the tower crane is erected at a project. O. Reg. 241/23, s. 15.</p> <p>(2) The inspection required in subsection (1) shall include the following:</p> <ol style="list-style-type: none"> 1. Inspection of structural components including, <ol style="list-style-type: none"> i. visual inspection of all welds and non-destructive testing of a sampling of welds determined by an engineer, and ii. measurements of the consistency of wall thickness within the closed section of the structural components to confirm the sections are compliant with the original design requirements. 2. Inspection of the rotating shafts, gears, hook blocks and mechanical linkages for signs of cracks, damage or wear using non-destructive testing. 3. For hydraulic components, <ol style="list-style-type: none"> i. measurement of the pressure at which pressure relief valves actuate, and ii. testing of hydraulic holding valves used to stop movement in the case of pressure loss. 4. Measurements to confirm that components that routinely wear due to use including clutch plates, brake pads, sheaves, wire ropes, bushings and pins, are within tolerances specified by their manufacturers.



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					<p>5. Inspection of non-structural components that may be subject to cracking, damage or wear.</p> <p>6. Performance of operational tests on the components listed below in accordance with the manufacturer's instructions to confirm that the components are in adequate condition and operating in accordance with the manufacturer's specifications:</p> <ul style="list-style-type: none"> i. Brakes. ii. Slew ring. iii. Hydraulic motors. iv. Hydraulic pumps. v. Valve blocks. vi. Hoist and luff drums. vii. Gearboxes and drive shafts. O. Reg. 241/23, s. 15. <p>(3) The operational tests required under paragraph 6 of subsection (2) do not require the components to be dismantled. O. Reg. 241/23, s. 15.</p> <p>(4) The engineer conducting the inspection or under whose direction an inspection is done shall prepare a written report of the inspection including test results, observations, measurements and records. O. Reg. 241/23, s. 15.</p> <p>(5) Any defects identified in the inspection that may affect the structural integrity, non-structural components, stability or motion of the tower crane or its load shall be corrected</p>

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					<p>or repaired in accordance with the instructions of the tower crane or component manufacturer or an engineer. O. Reg. 241/23, s. 15.</p> <p>(6) An engineer shall confirm in a written report that any defects identified have been corrected or repaired and that the corrected or repaired components are in adequate condition. O. Reg. 241/23, s. 15.</p>
<p>ONTARIO REGULATION 213/111</p>	<p>CONSTRUCTION PROJECTS</p>	<p>Substitution</p>	<p>01-Jan-24</p>	<p>160. (1) A tower crane shall have automatic limit switches and automatic overload limit devices that prevent,</p> <p>(a) overloading at relative radii;</p> <p>(b) a load on the crane from reaching beyond the highest permissible position specified by the manufacturer; and</p> <p>(c) the trolley from reaching beyond the permissible travel limit specified by the manufacturer. O. Reg. 213/91, s. 160 (1).</p> <p>(2) In addition to automatic limit switches and overload limit devices, a tower crane shall have such other switches and devices as the manufacturer specifies. O. Reg. 213/91, s. 160 (2).</p>	<p>160. A tower crane shall have,</p> <p>(a) limiting devices to, as applicable,</p> <p>(i) limit trolley travel at both ends of the boom,</p> <p>(ii) stop boom luffing at the lower or upper limits of boom movement,</p> <p>(iii) stop load block upward motion before two-blocking occurs,</p> <p>(iv) limit crane travel at both ends of the runway tracks,</p> <p>(v) limit maximum load lifted in each gear ratio,</p> <p>(vi) prevent overloading the crane by limiting the lifted load in accordance with the operating radius,</p> <p>(vii) limit the maximum load lifted to the allowable line pull, and,</p> <p>(viii) limit pressures in hydraulic or pneumatic circuits;</p> <p>(b) load and radius indicating devices; and</p>

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					(c) such other switches and devices as the manufacturer specifies. O. Reg. 241/23, s. 16.
ONTARIO REGULATION 213/112	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	161. (1) A competent worker shall perform operational tests on a tower crane to ensure that its automatic limit switches and overload limit devices are installed and functioning in accordance with the manufacturer's specifications, if any. O. Reg. 213/91, s. 161 (1).	<p>161 (1) A competent worker shall perform operational tests on a tower crane to ensure that,</p> <p>(a) its limiting and indicating devices are installed and functioning in accordance with the manufacturer's specifications or an engineer's instructions;</p> <p>(b) all clearances and alignments are adequate;</p> <p>(c) gearing and all other moving parts are operating correctly;</p> <p>(d) controller switches and other control devices are operating correctly;</p> <p>(e) all limit switches are operating correctly;</p> <p>(f) all circuits, interlocks, and sequences of operation are operating in accordance with the manufacturer's specifications;</p> <p>(g) all protective devices are operating correctly;</p> <p>(h) the audio device near the base of travelling cranes is operating correctly; and</p> <p>(i) each motion of the crane operates in accordance with the manufacturer's specifications. O. Reg. 241/23, s. 17.</p> <p>(1.1) After the erection of a tower crane but before the tower crane is put into service, load tests shall be performed on the tower crane in accordance with clause 6.3.3 of</p>

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					CSA Standard Z248-17. O. Reg. 241/23, s. 17.
ONTARIO REGULATION 213/113	CONSTRUCTION PROJECTS	Addition	01-Jan-24		<p>161.1 While a tower crane is in use at a project its components shall be inspected by a competent worker in accordance with the manufacturer's instructions, but at a minimum the following inspections shall be done:</p> <ol style="list-style-type: none"> 1. Every day, a competent worker shall, <ol style="list-style-type: none"> i. inspect all structural pins and keepers, ii. ensure all wedges in slab openings are in place and are tight, iii. ensure all guy lines and all guy line connections, if used, are adequate, iv. inspect mast bolts and anchor bolts, v. ensure all limit devices (except the line pull limit switch), signal lights, audio and visual indicators and brakes are operating correctly, vi. visually inspect all wire rope cable that winds on a drum or passes over a sheave that may reasonably be expected to be in use during the day's operation of the tower crane for damage or possible evidence of rope failure, vii. inspect grounding connections, viii. inspect the tracks for loose connections, proper drainage, subsidence and bogie wear on travelling cranes, ix. inspect rail clamps, if used, daily or each time their application is made, and

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					<p>x. inspect the turn table bolts.</p> <p>2. Every week, a competent worker shall inspect,</p> <p>i. all trolley rollers, tracks, slewing rings and rollers,</p> <p>ii. all gear shafts and belt drives,</p> <p>iii. all sheaves, bushings and pins,</p> <p>iv. all guy ropes, pendant lines, cable clips, thimbles and ferrules,</p> <p>v. all jib backstops and boom stops,</p> <p>vi. all rope attachments,</p> <p>vii. all walkways, handrails and ladders,</p> <p>viii. the locations in the structure where accumulation of water could result in damage, to ensure that such water is drained,</p> <p>ix. any tie-ins to slabs or other bracing systems that are used, and</p> <p>x. any other components recommended by the manufacturer.</p> <p>3. Every month, a competent worker shall inspect,</p> <p>i. all running ropes, in accordance with clause 6.5.1.3. of CSA Standard Z248-17 for all types of deterioration,</p> <p>ii. all mast and boom structures for cracks or buckling,</p>

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					<ul style="list-style-type: none"> iii. travelling cranes for bogie wear, iv. counterweight supports, v. brake adjustments for wear, vi. drums, sheaves, bearings, and mounts, and vii. any other components recommended by the manufacturer. O. Reg. 241/23, s. 18.
ONTARIO REGULATION 213/114	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	162 (2) When a tower crane boom is not permitted to slew freely it shall be secured in accordance with the written procedures of the crane's manufacturer. O. Reg. 213/91, s. 162 (2).	<p>162 (2) When a tower crane boom is not permitted to slew freely because of the circumstances in clauses (1) (a) or (1) (b), it shall be secured in accordance with the written procedures of the crane's manufacturer or written procedures prepared by an engineer. O. Reg. 241/23, s. 19.</p> <p>(3) Unattended or out of service cranes shall be secured in accordance with clauses 8.7.1 to 8.7.5 of CSA Standard Z248-17. O. Reg. 241/23, s. 19.</p>
ONTARIO REGULATION 213/115	CONSTRUCTION PROJECTS	Addition	01-Jan-24		162.1 When there are multiple cranes at a project, hoisting operations shall meet the clearance requirements set out in clause 8.10 of CSA Standard Z248-17. O. Reg. 241/23, s. 20.
ONTARIO REGULATION 213/116	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	164. A load block of an unattended tower crane shall be left empty, at the top position and located at minimum radius. O. Reg. 213/91, s. 164.	164. Unless otherwise specified by the manufacturer or approved by an engineer that a weight needs to be secured to a load block of an unattended tower crane to balance a crane that cannot slew freely, a load block of an unattended tower crane shall be left empty, at the top position and located at the minimum radius specified by

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					the manufacturer or approved by an engineer. O. Reg. 241/23, s. 21.
ONTARIO REGULATION 213/117	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	<p>165 (1) The track bed of a rail-mounted tower crane shall have a sound and rigid base capable of carrying all loads to which it is likely to be subjected without deformation or settlement which affects the stability of the crane. O. Reg. 213/91, s. 165 (1).</p> <p>(2) The undercarriage of a rail-mounted tower crane shall be fitted with rail clamps that can be firmly attached to the rails to lock the crane in position. O. Reg. 213/91, s. 165 (2).</p> <p>(3) A rail-mounted tower crane shall be locked in position on the rails when not in use. O. Reg. 213/91, s. 165 (3).</p> <p>(4) A rail-mounted tower crane shall have rail stops or bumpers that extend at least as high as the centre of the undercarriage wheels and that are securely attached to the rail at both ends. O. Reg. 213/91, s. 165 (4).</p>	<p>165. (1) The track foundation and track, including rails and ties, of a tower crane mounted on a travelling base using a travelling undercarriage shall be capable of carrying all loads to which it is likely to be subjected without deformation or settlement that affects the stability of the crane. O. Reg. 241/23, s. 21.</p> <p>(2) Design drawings for the track foundation and track, including rails and ties, shall be prepared by an engineer in accordance with the crane manufacturer's specifications. O. Reg. 241/23, s. 21.</p> <p>(3) The track foundation and track, including rails and ties, shall be inspected by an engineer in accordance with the performance standards for inspecting a tower crane as prescribed by Ontario Regulation 260/08 (Performance Standards) made under the Professional Engineers Act before a crane is placed on the track to confirm that the track foundation and track have been installed in accordance with the design drawings. O. Reg. 241/23, s. 21.</p> <p>(4) The undercarriage of a tower crane mounted on a travelling base shall be fitted with rail clamps that can be firmly attached to the rails to lock the crane in position. O. Reg. 241/23, s. 21.</p> <p>(5) A tower crane mounted on a travelling base using a travelling undercarriage shall be locked in position on the rails when not in use. O. Reg. 241/23, s. 21.</p> <p>(6) A tower crane mounted on a travelling</p>

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					base using a travelling undercarriage shall have rail stops or bumpers that extend at least as high as the centre of the undercarriage wheels and that are securely attached to the rail at both ends. O. Reg. 241/23, s. 21.
ONTARIO REGULATION 213/118	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	<p>168. (1) A cable used by a crane or similar hoisting device,</p> <p>(a) shall be steel wire rope of the type, size, grade and construction recommended by the manufacturer of the crane or similar hoisting device;</p> <p>(b) shall be compatible with the sheaves and the drum of the crane or similar hoisting device;</p> <p>(c) shall be lubricated to prevent corrosion and wear;</p> <p>(d) shall not be spliced; and</p> <p>(e) shall have its end connections securely fastened and shall be kept with at least three full turns on the drum. O. Reg. 213/91, s. 168 (1).</p> <p>(2) No cable used by a crane or similar hoisting device,</p> <p>(a) subject to subsection (3), shall contain six randomly-distributed wires that are broken in one rope lay or three or more wires that are broken in one strand in a rope lay;</p> <p>(b) shall be smaller than its nominal rope diameter by more than,</p> <p>(i) one millimetre for a diameter up to and</p>	<p>168. (1) A cable used by a crane or other hoisting device shall be wire rope or synthetic rope of the type, size, grade and construction recommended by the manufacturer of the crane or other hoisting device. O. Reg. 241/23, s. 22.</p> <p>(2) All wire rope used on a crane or other hoisting device shall,</p> <p>(a) be compatible with the sheaves and the drum of the crane or other hoisting device;</p> <p>(b) be lubricated to prevent corrosion and wear;</p> <p>(c) not be spliced;</p> <p>(d) have its end connections securely fastened; and</p> <p>(e) be kept with at least three full turns on the drum. O. Reg. 241/23, s. 22.</p> <p>(3) The following information shall be included in the operator's crane log in respect of any wire ropes installed on a tower crane:</p> <ol style="list-style-type: none"> 1. The diameter of the rope. 2. The length of the rope. 3. The tensile strength of single wires and finish.

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				<p>including nineteen millimetres,</p> <p>(ii) two millimetres for a diameter greater than nineteen millimetres up to and including twenty-nine millimetres, and</p> <p>(iii) three millimetres for a diameter greater than twenty-nine millimetres;</p> <p>(c) shall be worn by more than one-third of the original diameter of its outside individual wires;</p> <p>(d) shall show evidence of kinking, bird-caging, corrosion or other damage resulting in distortion of the rope structure; or</p> <p>(e) shall show evidence of possible rope failure including rope damage caused by contact with electricity. O. Reg. 213/91, s. 168 (2).</p> <p>(3) No cable that is static or is used for pendants,</p> <p>(a) shall contain three or more broken wires in one lay or in a section between end connectors; or</p> <p>(b) shall have more than one broken wire at an end connector. O. Reg. 213/91, s. 168 (3).</p> <p>(4) Rotation-resistant wire rope shall not be used for a cable for boom hoist reeving and pendants. O. Reg. 213/91, s. 168 (4).</p> <p>(5) Rotation-resistant wire rope shall not be used where an inner wire or strand for a cable is damaged or broken. O. Reg. 213/91, s. 168 (5).</p>	<p>4. The wire rope construction, type of lay and direction of lay.</p> <p>5. The number of outer strands of the rope.</p> <p>6. The type of core of the rope.</p> <p>7. The nominal or minimum rated breaking strength of the rope.</p> <p>8. The recommended maximum working load limit of the rope.</p> <p>9. The type of end fitting or connection and proof-test results if applicable of the rope.</p> <p>10. Whether the use of a swivel is permitted.</p> <p>11. The name of the manufacturer or supplier of the rope.</p> <p>12. The name of the person or organization issuing the wire rope written record and the date it was issued. O. Reg. 241/23, s. 22.</p> <p>(4) No cable used by a crane or other hoisting device,</p> <p>(a) subject to subsection (6), shall contain six randomly-distributed wires that are broken in one rope lay or three or more wires that are broken in one strand in a rope lay;</p> <p>(b) shall be smaller than its nominal rope diameter by more than,</p> <p>(i) one millimetre for a diameter up to and including nineteen millimetres,</p> <p>(ii) two millimetres for a diameter greater</p>

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					<p>than nineteen millimetres up to and including twenty-nine millimetres, and</p> <p>(iii) three millimetres for a diameter greater than twenty-nine millimetres;</p> <p>(c) shall be worn by more than one-third of the original diameter of its outside individual wires;</p> <p>(d) shall show evidence of waviness, strand extrusion, wire extrusion, kinks, tightened loops, crushing, bird-caging, bends or other damage resulting in distortion of the rope structure;</p> <p>(e) shall have had any contact with electricity;</p> <p>(f) shall show evidence of heat damage; or</p> <p>(g) shall show evidence of corrosion in excess of the rope manufacturer's instructions. O. Reg. 241/23, s. 22.</p> <p>(5) If any damage to a cable is identified, the cable shall be evaluated by a competent person to determine whether it meets the requirements of subsection (4), and be taken out of service if the evaluation determines that the cable does not meet the requirements. O. Reg. 241/23, s. 22.</p> <p>(6) No cable that is static or is used for pendants,</p> <p>(a) shall contain three or more broken wires in one lay or in a section between end connectors; or</p> <p>(b) shall have more than one broken wire at an end connector. O. Reg. 241/23, s. 22.</p>

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					<p>(7) Rotation-resistant wire rope shall not be used for a cable for boom hoist reeving unless specified by the crane manufacturer or as pendants. O. Reg. 241/23, s. 22.</p> <p>(8) Rotation-resistant wire rope shall not be used where an inner wire or strand for a cable is damaged or broken. O. Reg. 241/23, s. 22.</p> <p>168.1 Swivels shall not be used on a boom hoist cable on a tower crane unless,</p> <p>(a) they are explicitly permitted by the tower crane manufacturer and wire rope manufacturer; or</p> <p>(b) an engineer evaluated the tower crane and the wire rope and determined that a swivel may be used. O. Reg. 241/23, s. 22.</p>
<p>ONTARIO REGULATION 213/119</p>	<p>CONSTRUCTION PROJECTS</p>	<p>Substitution</p>	<p>01-Jan-24</p>	<p>169. A cable used by a crane or similar hoisting device shall be capable of supporting at least,</p> <p>(a) three and one-half times the maximum load to which it is likely to be subjected if it is used on a device other than a tower crane and it winds on a drum or passes over a sheave;</p> <p>(b) five times the maximum load to which it is likely to be subjected if it is used on a tower crane and it winds on a drum or passes over a sheave;</p> <p>(c) three times the maximum load to which it is likely to be subjected if it is a pendant or is not subject to winding or bending; and</p>	<p>169. A cable used by a crane or other hoisting device shall be capable of supporting at least,</p> <p>(a) three and one-half times the maximum load to which it is likely to be subjected if it is used on a device other than a tower crane and it winds on a drum or passes over a sheave;</p> <p>(b) five times the maximum load to which it is likely to be subjected if it is used on a tower crane and it winds on a drum or passes over a sheave;</p> <p>(c) three times the maximum load to which it is likely to be subjected if it is a pendant or is not subject to winding or bending; and</p> <p>(d) ten times the maximum load to which it is</p>

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				(d) ten times the maximum load to which it is likely to be subjected if the crane or similar hoisting device is used for supporting persons. O. Reg. 213/91, s. 169.	likely to be subjected if the crane or other hoisting device is used for supporting persons. O. Reg. 213/91, s. 169.
ONTARIO REGULATION 213/120	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	<p>170. (1) All cable used by a crane or similar hoisting device shall be visually inspected by a competent worker at least once a week when the crane or similar hoisting device is being used. O. Reg. 213/91, s. 170 (1).</p> <p>(2) The worker performing an inspection shall record the condition of the rope or cable inspected in the log book for the crane or similar hoisting device. O. Reg. 213/91, s. 170 (2).</p>	<p>170. (1) All cables used by a crane or other hoisting device shall be visually inspected by a competent worker at least once a week when the crane or other hoisting device is being used, or more frequently, if recommended by the cable manufacturer. O. Reg. 241/23, s. 24.</p> <p>(2) The worker performing an inspection shall record the condition of the cable inspected and a record of the inspection shall be kept at the project while the crane or other hoisting device is in use at the project. O. Reg. 241/23, s. 24.</p> <p>(3) If an inspection under subsection (1) is of a cable used by a crane or similar hoisting device, the record of inspection shall be made in the operator's crane log. O. Reg. 241/23, s. 24.</p>
ONTARIO REGULATION 213/121	CONSTRUCTION PROJECTS	Substitution	01-Jan-24	<p>171. (1) A cable used by a crane or similar hoisting device shall be securely attached,</p> <p>(a) by binding and fastening the cable around an oval thimble in a way that is strong enough to prevent the cable thimble from separating; or</p> <p>(b) by fastening the cable within either a tapered socket by means of virgin zinc or a wedge-type socket fitted with a wire rope clip at the dead end to prevent the accidental release or loosening of the wedge. O. Reg. 213/91, s. 171 (1).</p>	<p>171. (1) A cable used by a crane or other hoisting device shall be adequately attached,</p> <p>(a) by binding and fastening the cable around an oval thimble in a way that is strong enough to prevent the cable thimble from separating;</p> <p>(b) by fastening the cable within a tapered socket by means of virgin zinc or epoxy resin; or</p> <p>(c) by fastening the cable with a wedge-type socket fitted with a wire rope clip at the dead</p>

Reference	Item	Change	Date in Effect	2023 BlueBook Content	Updated Content
				<p>(2) The dead end cable of a wedge socket assembly on a hoisting line shall extend between 100 millimetres and 300 millimetres out of the socket. O. Reg. 213/91, s. 171 (2).</p>	<p>end to prevent the accidental release or loosening of the wedge. O. Reg. 241/23, s. 24.</p> <p>(2) The dead end cable of a wedge socket assembly on a hoisting line shall extend between 100 millimetres and 300 millimetres out of the socket. O. Reg. 241/23, s. 24.</p> <p>(3) All wire rope terminations used on a tower crane shall be proof tested after installation onto the wire rope in accordance with the recommendations of the wire rope or termination manufacturer, but in no case to more than 50 per cent of the wire rope's nominal or minimum rated breaking strength, and permanent records of the proof testing shall be kept for the life of the terminations. O. Reg. 241/23, s. 24.</p> <p>(4) Despite subsection (3), wire rope terminations installed onto the wire rope used on a tower crane that is in service on the date section 24 of Ontario Regulation 241/23 comes into force shall be proof tested before the wire rope is put into subsequent service. O. Reg. 241/23, s. 24.</p>
<p>ONTARIO REGULATION 213/122</p>	<p>CONSTRUCTION PROJECTS</p>	<p>Substitution</p>	<p>01-Jan-24</p>	<p>175. (1) An overhauling weight used on the cable of a crane or similar hoisting device,</p> <p>(a) shall be prevented from sliding up or down the cable; and</p> <p>(b) shall be securely attached to the load hook and the cable. O. Reg. 213/91, s. 175 (1).</p> <p>(2) No overhauling weight used on the cable of a crane or similar hoisting device shall be split. O. Reg. 213/91, s. 175 (2).</p>	<p>175. (1) An overhauling weight used on the cable of a crane or other hoisting device,</p> <p>(a) shall be prevented from sliding up or down the cable; and</p> <p>(b) shall be securely attached to the load hook and the cable. O. Reg. 213/91, s. 175 (1).</p> <p>(2) No overhauling weight used on the cable of a crane or other hoisting device shall be split. O. Reg. 213/91, s. 175 (2).</p>

Reference	Item	Change	Date in Effect	2023 BlueBook Content	Updated Content
ONTARIO REGULATION 213/123	CONSTRUCTION PROJECTS	Substitution	01-Jan- 24	179. (1) If a worker may be endangered by the rotation or uncontrolled motion of a load being hoisted by a crane or similar hoisting device, one or more guide ropes or tag lines shall be used to prevent the rotation or uncontrolled motion. O. Reg. 213/91, s. 179 (1).	179. (1) If a worker may be endangered by the rotation or uncontrolled motion of a load being hoisted by a crane or other hoisting device, one or more guide ropes or tag lines shall be used to prevent the rotation or uncontrolled motion. O. Reg. 213/91, s. 179 (1).

