

Safety code on articulating boom cranes



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Safety code on articulating boom cranes



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Preface

This is the first edition of CSA Z150.3, *Safety code on articulating boom cranes*.

This Standard is designed to

- (a) provide requirements to guard against and minimize injury to workers, and otherwise provide for the protection of life, limb, health, and property, by specifying minimum safety requirements for articulating boom cranes;
- (b) provide direction and guidance to manufacturers and buyers of articulating boom cranes regarding the minimum standards expected of such machines in Canada;
- (c) provide direction and guidance to owners, employers, supervisors, workers, users, and others concerned with, responsible for, or involved in the application and use of articulating boom cranes; and
- (d) guide Canadian federal, provincial/territorial, and other regulatory bodies in the development and promulgation of appropriate health and safety legislation and directives concerning articulating boom cranes.

This Standard was prepared by the Subcommittee on Articulating Boom Cranes, under the jurisdiction of the Technical Committee on Mobile Cranes and the Strategic Steering Committee on Occupational Health and Safety, and has been formally approved by the Technical Committee.

November 2011

Notes:

- (1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- (2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
- (3) *This publication was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this publication.*
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 - (c) *wording of the proposed change; and*
 - (d) *rationale for the change.*

Z150.3-11

Safety code on articulating boom cranes

1 Scope

1.1

This Standard specifies requirements for the design, construction, installation, inspection, testing, maintenance, and operation of articulating boom cranes.

Note: In this Standard, the terms “articulating boom crane” and “crane” have the same meaning.

1.2

This Standard applies to the following types of cranes:

- (a) commercial truck-mounted cranes (see [Figures A.1 to A.4](#));
- (b) stationary cranes; and
- (c) mobile cranes.

1.3

This Standard applies to cranes that

- (a) are mounted on a fixed or mobile base;
- (b) hoist, swing, and lower loads at various radii by means of an articulating boom (that can also telescope), and which can be equipped with a load hoist mechanism;
- (c) use an engine(s) or motor(s) of sufficient power to
 - (i) perform the load handling functions described in Item (b); and
 - (ii) where applicable, propel a rolling base on a trailer; and
- (d) use hooks or load handling devices, while hoisting (lifting), as specified by the manufacturer.

1.4

This Standard does not apply to

- (a) cranes with booms that do not articulate;
- (b) hydraulic and cable-operated excavating equipment such as power shovels and backhoes;
- (c) cranes with booms constructed of non-conductive materials and vehicle-mounted aerial devices (see CAN/CSA-C225);
- (d) cranes designed primarily for personnel baskets, platforms, ladders, etc., as opposed to material handling;
- (e) cranes used in forestry and logging applications;
- (f) scrap handlers;
- (g) cranes mounted on a ship or boat;
- (h) concrete pumper trucks;
- (i) self-propelled elevating work platforms (see CAN/CSA-B354.1, CAN/CSA-B354.2, and CAN/CSA-B354.4); and
- (j) lift (forklift) trucks equipped with booms (see CAN/CSA-B335).

1.5

In CSA standards, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard.