

Safety standard for lift trucks



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Preface

This is the third edition of CSA B335, *Safety standard for lift trucks*. It supersedes the previous editions published in 2004 and 1994. This Standard specifies the key elements of a lift truck safety program and also provides recommended qualifications for lift truck trainers and maintenance technicians and personnel.

This edition of CSA B335 has been updated and harmonized with design, classification, and maintenance requirements of ANSI/ITSDF B56.1 and ANSI/ITSDF B56.6. The following significant changes and additions have been made over the requirements and guidance in the 2nd edition:

- a) new references to CSA OHS management standards (Z1000 series), CSA A344.1 *Guide on Use of Steel Storage Racks*, CSA Z460 *Standard on Hazardous Energy Control*, and CSA Z462 *Standard on Workplace Electrical Safety*;
- b) expanded requirements for facility design (Clause [4.5.5.1](#));
- c) enhanced requirements for aiseways and management of obstructions (Clause [4.5.6](#));
- d) further direction on the selection of lift trucks for the intended application (Clause [4.6.1](#));
- e) enhanced requirements for operator compartment guards (Clause [4.8.4.3](#));
- f) more explicit requirements for pre-operation inspections (Clause [4.9.1](#) and Annex [A](#));
- g) guidance on conducting risk assessments (based on CSA Z1002);
- h) modified requirements for load handling (Clause [4.9.5](#));
- i) new requirements for supporting of trailers entered by lift truck (Clause [4.9.7.3](#));
- j) expanded requirements for use of a lift truck to elevate personnel (Clause [4.9.9](#));
- k) more explicit requirements for “leaving the operator position” (Clause [4.9.12](#));
- l) simplified requirements for medical and physical fitness of operators (Clause [4.10](#));
- m) ergonomic design considerations (Clause [5.3](#) and Annex [C](#)) now reference CSA Z1004;
- n) operator training requirements (Clause [6](#)) now reference CSA Z1001;
- o) numerous modifications have been made to the training requirements to correspond with changes made to the operation, safety, inspection, and maintenance requirements throughout the Standard;
- p) changes have been made to the retarding requirements (Clause [6.21](#));
- q) additions have been made to basic operator qualifications (Clause [6.22](#));
- r) hazard energy control requirements for maintenance work now reference CSA Z460 (Clause [8.1.6](#));
- s) enhancements have been made to requirements for pre-operation inspections and service report inspections (Clause [8.2](#));
- t) new guidance on battery charging (Annex [D](#)); and
- u) new example Operator Evaluation Forms (Annex [F](#)).

This Standard reprints portions of ANSI/ITSDF B56.1, *Safety Standard for High Lift and Low Lift Trucks*, and ANSI/ITSDF B56.6, *Safety Standard for Rough Terrain Lift Trucks*, and refers to these Standards with respect to design and construction requirements.

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CSA Group gratefully acknowledges the financial and in-kind support from the Canadian government departments responsible for occupational health and safety for the development of this edition

This Standard was prepared by the Technical Committee on Lift Trucks, under the jurisdiction of the Strategic Steering Committee on Occupational Health and Safety, and has been formally approved by the Technical Committee.

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 Standard 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 Standard.*
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 - b) *provide an explanation of circumstances surrounding the actual field condition; and*
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- 5) *This Standard is subject to review five years from the date of publication. Suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include “Proposal for change” in the subject line:*
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 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

B335-15

Safety standard for lift trucks

1 Scope

1.1

This Standard applies to Class 1, 2, 3, 4, 5, and 7 powered lift trucks—their design, operation, and maintenance. In addition, certain clauses apply to Class 6 vehicles, non-powered high-lift trucks, and personnel and burden carriers. See Annex B for a listing and description of classes.

1.2

The purpose of this Standard is to promote lift truck safety and minimize the risk of injury to workers by specifying the essential elements of a lift truck safety program and prescribing requirements with respect to lift truck design and construction, maintenance and inspection, safe operation, and operator training.

This Standard also outlines recommended qualifications for trainers and maintenance technicians.

This Standard can also be used as a guide for Canadian federal, provincial, and other regulatory bodies in the development and promulgation of appropriate health and safety legislation and directives concerning lift trucks.

1.3

Clause 4 of this Standard specifies the key elements of a lift truck safety program, including general medical and physical fitness requirements for lift truck operators.

1.4

Clause 5 of this Standard sets forth safety standards for the design and construction of lift trucks at the time of manufacture.

1.5

Clause 6 of this Standard provides minimum requirements for initial and ongoing familiarization and upgrade training in the operation of lift trucks, including any of their attachments.

Notes:

- 1) Due to the different design of vehicles classified as Class 6, non-powered high lift trucks, and personnel and burden carriers, only certain parts of Clause 6 will be relevant; however, appropriate training for these classes is to be provided to operators of said equipment.
- 2) Job and/or familiarization training of lift truck operators for particular lift trucks requiring special needs or specialized equipment and/or used in a specific workplace environment are in addition to the basic training requirements of this Standard.

1.6

Clause 7 of this Standard outlines the minimum qualifications for a trainer delivering a lift truck operator training program as outlined in Clause 6.