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B401-18
National Standard of Canada



Vehicle maintenance facilities code



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Vehicle maintenance facilities code

IGAC

Interprovincial Gas Advisory Council



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Preface

This is the first edition of CSA B401, *Vehicle maintenance facilities code*.

CSA Group acknowledges that the development of this Code was made possible, in part, by the financial support of Natural Resources Canada.

This Code was prepared by the Technical Subcommittee for Vehicle maintenance facilities code, under the jurisdiction of the Technical Committee on Natural Gas Transportation and the Strategic Steering Committee on Transportation. It has been formally approved by the Technical Committee and the Interprovincial Gas Advisory Council.

This Code has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

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 Code is stated in its Scope, it is important to note that it remains the responsibility of the users of the Code 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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 - a) *Code designation (number);*
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 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

B401-18

Vehicle maintenance facilities code

1 Scope

1.1

This Code applies to the portions of a motor vehicle maintenance facility where natural-gas-fuelled vehicles are maintained, repaired, or stored during maintenance or repair, including areas and systems ancillary thereto.

1.2

The scope of this Code does not include

- a) indoor or outdoor refuelling operations;
- b) parking facilities; or
- c) other fuels used for vehicles.

1.3

The terms “fuelling” and “refuelling” are used interchangeably in this Code.

1.4

The purpose of this Code is to provide reasonable means to manage the risks associated with the maintenance and repair of vehicles fuelled with compressed natural gas (CNG) or liquefied natural gas (LNG) inside motor vehicle maintenance facilities.

1.5

The values given in SI units are the units of record for the purposes of this Code. The values given in parentheses are for information and comparison only.

Notes:

- 1) *IEEE/ASTM SI 10 or ISO 80000-1 can be used as a guide when converting Imperial units to metric units.*
- 2) *Less than 1 m will be shown in mm.*
- 3) *1 m or more will be shown in m to the nearest 0.1 m.*
- 4) *Ft/in conversions will be rounded to the nearest full inch using traditional rounding conventions.*
- 5) *Pressures will be rounded to the nearest whole value using traditional rounding conventions.*
- 6) *Where the word “gallon” is used in this Code, it indicates a U.S. gallon equivalent to 3.785 L water capacity.*

1.6

In this Code, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the Code; “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 Code.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.