

GAS SAFETY REGULATION AMENDMENTS AND ADOPTED CODE REVISIONS
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Announcement of Gas Safety Regulation amendments and new gas safety codes adopted.

Details

Ministerial Order M 191 deposited as B.C. Reg. 145/2022 (see www.bclaws.gov.bc.ca) will come into force effective **October 1, 2022**. On this date, certain sections of the Gas Safety Regulation will be amended, as described in the tables below. The amendments include repeals, substitutions, additions, strikeouts, renumbering, and the adoption of new editions of codes.

Work performed under permits taken out from **October 1, 2022** onward will require compliance with the new editions of codes adopted under M 191 Appendix 1. Work performed under permits obtained prior to October 1, 2022, will continue to require compliance to, and be assessed to, the current adopted 2015 editions of codes.

The Ministerial Order adopts, in Appendix 1 of the order, Annex J of the B149.3 Code for field approval of fuel burning appliances and equipment (Mobile Outdoor Food Service Equipment) as normative, as well as the CAN/BNQ 1784-000/2022 Canadian Hydrogen Installation code, which will also come into force effective **October 1, 2022**.

Appendix 2 of the Ministerial Order M 191 details changes that will come into effect **October 1, 2023**. Revision to section 3 of the Gas Safety Regulation clarifies the exemption for internal combustion engines, turbines, and prime movers under the scope of the regulation applies only to stationary engines, turbines, and prime movers approved under the *Motor Vehicle Safety Act*.

Sections to the Gas Safety Regulation to be amended

Gas Safety Regulation Section Number	Publisher / Source	Text prior to October 1, 2022	Amended Text Effective October 1, 2022
2	Gas Safety Regulation, B.C. Reg. 103/2004	"Natural gas" means a naturally occurring mixture of hydrocarbon gases composed predominantly of methane but which may also contain ethane, nitrogen and propane;	"Natural gas" means the following: (a) a naturally occurring mixture of hydrocarbon gases composed predominantly of methane but that may also contain ethane, nitrogen and propane; (b) a mixture referred to in paragraph (a) into which hydrogen has been injected.

7(4)(b)	Gas Safety Regulation, B.C. Reg. 103/2004	(b)the person must hold a valid class B gas fitter certificate of qualification, issued on or before March 31, 2020, that entitles the person to perform the work referred to in subsection (3).	(b) the person must hold a valid class B gas fitter certificate of qualification that (i) was issued on or before March 31, 2020, (ii) is marked with the designation “(GP)”, and (iii) entitles the person to perform the work referred to in subsection (3).
30(1)(a)	CSA Group	CSA-B149.1-15 Natural gas and propane installation code;	CSA B149.1-20 <i>Natural gas and propane installation code;</i>
30(1)(b)	CSA Group	CSA-B149.2-15 Propane storage and handling code;	CSA B149.2-20 <i>Propane storage and handling code;</i>
30 (1)(c)	CSA Group	CSA-B149.3-15 Code for the field approval of fuel related components on appliances and equipment;	CSA B149.3-20 <i>Code for the field approval of fuel-burning appliances and equipment</i> , including, as normative, Annex J Mobile outdoor food service units;
30 (1)(d)	CSA Group	CSA-B149.5-15 Installation code for propane fuel systems and tanks on highway vehicles;	CSA B149.5-20 <i>Installation code for propane fuel systems and containers on motor vehicles;</i>
30(1)(e)	CSA Group	30(1)(f) CSA-Z662-15 Oil and gas pipeline systems;	30(1)(e) CSA Z662-19 <i>Oil and gas pipeline systems;</i>
30 (1) (f)	American National Standards Institute/CSA Group	30 (1) (g) ANSI/CSA-B149.6-15 Code for digester gas, landfill gas, and biogas generation and utilization;	30(1)(f) CSA/ANSI B149.6-20 <i>Code for digester gas, landfill gas, and biogas generation and utilization;</i>
30 (1)(g)	CSA Group	30 (1)(j) CSA B108-18 Natural gas refuelling stations installation code;	30 (1)(g) CSA B108-18 <i>Natural gas refuelling stations installation code;</i>
30 (1) (h)	CSA Group	30 (1) (k) CSA B109-17 Natural gas for vehicles installation code.	30 (1)(h) CSA B109-17 <i>Natural gas for vehicles installation code;</i>

30 (1) (i)	Bureau de normalisation du Quebec (BNQ)	Not included	30 (1)(i) CAN/BNQ 1784-000-2022 <i>Canadian Hydrogen Installation Code.</i>
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Appendix 2: Effective Oct 1, 2023

3(d)	Gas Safety Regulation, B.C. Reg. 103/2004	(d) an internal combustion engine, turbine, or any other prime mover;	<i>Section 3 (d) of the Gas Safety Regulation, B.C. Reg. 103/2004, is repealed and the following substituted:</i> (d) any of the following that is approved under the <i>Motor Vehicle Safety Act</i> (Canada): (i) an internal combustion engine; (ii) a turbine; (iii) any other prime mover; .
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Sections of the schedule to the Gas Safety Regulation to be amended


Schedule Section Number		Text prior to October 1, 2022.	Amended Text Effective October 1, 2022.
1	Gas Safety Regulation, B.C. Reg. 103/2004	Not included	<i>1 The following clauses are added after Clause 4.3.8 of CSA B149.1-20 Natural gas and propane installation code:</i> <i>4.3.9</i> The installer must ensure that no portion of an energized gas piping system is altered or disconnected prior to isolation of that portion of the gas system from the source supply. <i>4.3.10</i> The installer must ensure that any alterations of an existing gas piping system include a testing procedure in accordance with Clause 6.22 to ensure that the gas piping system is gas-tight at the completion of the work.

1.1	Gas Safety Regulation, B.C. Reg. 103/2004	<p>1 Paragraph (b) of Clause 4.14.6 of CSA-B149.1-15 Natural gas and propane installation code, is repealed and the following substituted:</p> <p>(b) the clearance between the appliance and the edge of the roof or other hazard shall be at least 6 feet (2 m), but this clearance may be reduced to 3 feet (1 m) if a permanent guard rail or equivalent protection is provided; and .</p>	<p>1.1 Paragraph (b) of Clause 4.14.6 of CSA B149.1-20 is repealed and the following substituted:</p> <p>(b) the clearance between the appliance and the edge of the roof or other hazard shall be at least 6 feet (2 m), but this clearance may be reduced to 3 feet (1 m) if a permanent guard rail or equivalent protection is provided; and</p>
5	Gas Safety Regulation, B.C. Reg. 103/2004		<p>Sections 2 to 6 and 8 to 10 of the Schedule are amended by striking out “CSA-B149.1-15” and substituting “CSA B149.1-20”.</p>
6	Gas Safety Regulation, B.C. Reg. 103/2004	<p>7 The following clauses are added after Clause 7.25.5 of CSA-B149.1-15:</p> <p>7.25A Gas Appliances Installed in Bedrooms and Bathrooms</p> <p>7.25A.1 A gas appliance installed in a bathroom with a door shall be of the direct vent type only.</p> <p>7.25A.2 A gas appliance installed in a closet or a small room having access only through a bathroom, bedroom or bed-sitting room shall be of the direct vent type or have combustion and ventilation air supplied to the closet or small room. If any exhaust fan affects the operation of a gas appliance, the gas appliance shall be isolated from the bathroom using a sealed opening or door closer.</p> <p>7.25A.3 A gas appliance installed in a bedroom shall meet all of the following requirements:</p> <p>(a) the appliance must be of the automatic temperature-controlled type;</p>	<p>Section 2.1 of the Schedule is amended by adding the following clauses after Clause 4.26.1:</p> <p>4.27 Gas Appliances Installed in Bedrooms and Bathrooms</p> <p>4.27.1 A gas appliance installed in a bathroom with a door shall be of the direct vent type only.</p> <p>4.27.2 A gas appliance installed in a closet or a small room having access only through a bathroom, bedroom, or bed-sitting room shall be of the direct vent type or have combustion and ventilation air supplied to the closet or small room. If any exhaust fan affects the operation of a gas appliance, the gas appliance shall be isolated from the bathroom using a sealed opening or door closer.</p> <p>4.27.3 A gas appliance installed in a bedroom shall meet all of the following requirements:</p> <p>(a) the appliance must be of the automatic temperature-controlled type;</p>

		<p>(b)the appliance must be equipped with a pressure regulator;</p> <p>(c)the appliance must have a 100% safety shut-off control valve;</p> <p>(d)the appliance must be vented and meet the requirements for combustion air specified by section 7.</p> <p>7.25A.4 A gas appliance (fireplace) installed as a divider between a bedroom and bathroom shall meet all the requirements for an installation in a bedroom. In addition, the gas appliance shall be sealed from the bathroom using material that is impact resistant and thermal shock proof. Clearance to the tub must be maintained to prevent accidental injury from the hot surface of the appliance.</p>	<p>(b) the appliance must be equipped with a pressure regulator;</p> <p>(c) the appliance must have a 100% safety shut-off control valve;</p> <p>(d) the appliance must be vented and meet the requirements for combustion air specified by section 8.</p> <p>4.27.4 A gas appliance (fireplace) installed as a divider between a bedroom and bathroom shall meet all the requirements for an installation in a bedroom. In addition, the gas appliance shall be sealed from the bathroom using material that is impact resistant and thermal shock proof. Clearance to the tub must be maintained to prevent accidental injury from the hot surface of the appliance.</p>
7 2.2	Gas Safety Regulation, B.C. Reg. 103/2004	<p>CSA B149.1-20</p> <p>5.6.4 a) the service regulator is certified to CSA 6.18 and equipped with an overpressure shut-off device;</p>	<p>2.2 Paragraph (a) of Clause 5.6.4 of CSA B149.1-20 is repealed and the following substituted:</p> <p>(a) the service regulator is certified to CSA 6.18 and equipped with an overpressure shut-off device that vents gas at a rate not exceeding 2.5 ft³/h (0.0706 m³/h); .</p>
7 2.3	Gas Safety Regulation, B.C. Reg. 103/2004	<p>CSA B149.1-20</p> <p>6.9.2 Piping of NPS 2-1/2 and over shall have welded pipe joints.</p>	<p>Clause 6.9.2 of CSA B149.1-20 is repealed and the following substituted:</p> <p>6.9.2 Piping of NPS 2-1/2 to 4 shall be either press-connect fittings certified to CSA 6.32 (ANSI LC-4) or welded pipe joints. Piping greater than NPS 4 shall be welded pipe joints.</p>

8	Gas Safety Regulation, B.C. Reg. 103/2004	<p>4 The following clauses are added after Clause 7.18.7 of CSA-B149.1-15:</p> <p>(d) Maintenance of the construction heater must be performed by the lessor. This work shall include the regulator, hose and fittings.</p>	<p>Section 4 of the Schedule is amended by repealing paragraph (d) of Clause 7.18.7 of CSA B149.1-20 and substituting the following:</p> <p>(d) Maintenance of the construction heater is the responsibility of the lessor. This work shall include maintenance of the appliance, regulator, hose and fittings.</p>
9	Gas Safety Regulation, B.C. Reg. 103/2004		<p>Section 7 of the Schedule is repealed.</p>

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 Vicky Kang
 Manager, Energy
 Provincial Safety Manager, Gas

References:

Safety Standards Act
 Gas Safety Regulation
[Ministerial Order M 191 deposited as B.C. Reg. 145/2022](#)