

8) Service or install liquid propane piping or tubing systems and components.

Supervised:

Unsupervised:

3. Additional codes, acts, and regulations

Overview

Purpose

The gas technician/fitter should be familiar with the additional codes, acts, and regulations that affect gas and propane installations.

Objectives

At the end of this Chapter, you will be able to:

- identify additional codes and acts that have impact on gas and propane installations.

Terminology

Term	Abbreviation (symbol)	Definition
Workplace Hazardous Materials Information System	WHMIS	Provides workers, employers, and suppliers of materials with vital information about hazardous materials in the workplace

Additional codes, acts, regulations, and standards that have impact on natural gas and propane installations

Besides CSA B149.1, *Natural gas and propane installation code*, CSA B149.2, *Propane storage and handling code*, and the provincial acts and regulations, there are several other codes, acts, and regulations that will have an impact on gas and propane installations. They are as follows:

Codes

Code	Definition
Building Codes	The National Building Codes and/or provincial building codes include coverage for ventilation requirements, chimneys, and clearances from manufactured chimneys.
Electrical Codes	The Canadian Electrical Code and/or provincial electrical codes include coverage for accessibility clearances, separate circuits, wire sizing, switch requirements, permits, and inspections.
CSA B149.3 <i>Code for the Field Approval of Fuel-burning on Appliances and Equipment</i>	<p>This Code contains the requirements, which include valve train diagrams, for fuel-related components and accessories and their assembly on an appliance utilizing gas.</p> <p>The requirements of this Code, including these valve train diagrams, apply:</p> <ul style="list-style-type: none"> • to new, non-certified appliances and equipment of all inputs for which there is no approved standard; and • when the upgrading of an existing certified or non-certified appliance is required.

Acts and regulations (OHSA)

Act	Definition
Occupational Health and Safety Act	The province sets provincial occupational health and safety acts and regulations to protect the health and safety of workers (see Unit 1 <i>Safety</i> for more information).
Trades Qualification Act	Provincial trades qualification acts regulate job descriptions and qualifications. These acts define the scope of work that each trade can perform.

Act	Definition
Boiler and Pressure Vessels Act	Provincial boiler and pressure vessels acts establish rules of safety concerning the design, fabrication, and inspection during construction of boilers and pressure vessels, including propane tanks, and welding of gas piping.
Transportation of Dangerous Goods Act	The Transportation of Dangerous Goods Act is an act of the federal government regulating the transport and handling of goods deemed to be dangerous under the Act, including the transport of propane.

Regulations and standards

Regulation or Standard	Definition
Workplace Hazardous Materials Information System (WHMIS) and WHMIS 2015	<p>WHMIS regulations lay out the legal steps that employers and suppliers of hazardous products must follow to ensure protection of workers' health and safety. The WHMIS system consists of three main elements: labelling, material safety data sheets/safety data sheets, and education/training.</p> <p>WHMIS 2015, updated in February 2015, moved to align with the United Nations (UN)'s Globally Harmonized System of Classification and Labelling of Chemicals (GHS). It is important to note that Canada's regulations do have differences from the UN GHS. See Unit 1 Safety > Chapter 3. <i>Hazardous Materials</i> Chapter for further information.</p>
Material Safety Data Sheet (MSDS) and Safety Data Sheet (SDS)	Material safety data sheets (under WHMIS) and safety data sheets (under WHMIS 2015) are technical bulletins that provide detailed information about hazardous products. See Unit 1 Safety > Chapter 3. <i>Hazardous materials</i> for further information.
Installation Requirements for Gas-burning Appliances in Manufactured Homes	CSA Group publishes CSA Z240.4.1 as part of CSA Z240 MH Series, <i>Manufactured homes</i> . These requirements are applicable to the installation of appliances in new manufactured homes.
Installation Requirements for Propane Appliances and Equipment in Recreational Vehicles	CSA Group published Z240.4.2 as part of CSA Z240 RV Series, <i>Recreational vehicles</i> . These requirements are applicable to the installation of appliances in recreational vehicles, folding camping trailers, fifth-wheel trailers, motor homes, truck campers, and travel trailers.

Assignment Questions – Chapter 3

- 1) Where would you find requirements governing the construction of chimneys?
 - a) Applicable UL Canada Standard
 - b) Applicable CSA Group Standard
 - c) National Energy Code of Canada for Buildings (NECB)
 - d) National Building Code of Canada (NBCC)
- 2) What Code would you refer to for information on the electrical circuits of gas-fired equipment?
 - a) CSA B149.1
 - b) Canadian Electrical Code, Part I
 - c) CSA B149.3
 - d) National Energy Code of Canada for Buildings (NECB)
- 3) Which regulation describes the legal requirements of employers and suppliers of hazardous materials?
 - a) Occupational Health and Safety Act
 - b) Occupational Health and Safety Code
 - c) WHMIS 2015
 - d) Provincial Safety Authority
- 4) Who publishes the standard Installation Requirements for Gas-burning Appliances in Manufactured Homes?
 - a) CSA Group
 - b) Provincial Safety Authority
 - c) UL Canada
 - d) Standards Council of Canada (SCC)