



P.T.I 911-01

LPG Awareness for Firefighters



Course Overview

This course, available in English and French, has been developed specifically for Canadian firefighters. The course provides key information related to Liquefied Petroleum Gases (LPGs) that will enhance risk assessment processes related to incidents involving propane and other LPGs. Firefighters taking this course will develop a consistent approach to LPG-related incidents leading to enhanced public safety, minimizing the risk of personal injury to the public or the firefighters and propane industry personnel involved in these incidents. Classroom delivery of this course can be completed in approximately six hours.

Key Learning Objectives

Firefighters will gain knowledge in the following key areas:

- **Introduction and LPG Properties and Characteristics**

A brief introduction to the propane industry and the various ways in which propane is used across Canada is provided. Firefighters will also develop an understanding of the codes, standards and regulations the propane industry follows to ensure the safe use, handling and transportation of propane and other LPGs. Instruction also covers the general properties and characteristics of LPG including working pressures and expansion ratios of propane.

- **Containers and Equipment**

The course provides information on the various containers used to store and transport LPG including cylinders, storage tanks, dispensing units and bulk propane plants. This section explains the materials and regulatory standards used to build propane containers, including composite material cylinders. Container volume capacity, working pressures, valves and safety features for each type of container are also explained. The regulations surrounding filling, transporting and re-qualifying of propane containers are also covered.





- **LPG Transportation**

Information is provided on bulk LPG transport vehicles and rail cars used to transport propane and other liquefied petroleum gases. In addition, the course covers working pressures, volume capacities and container damage assessment principles of these large volume containers.

- **Emergency Response**

The curriculum includes information on emergency plans for typical facilities. Details are also provided on how and under what circumstances an Emergency Response Assistance Plan (ERAP) is activated in addition to covering the role of the LPG Emergency Response Corporation and other individuals in ERAP activation.

- **Emergency Response Scenarios**

Firefighters will understand factors affecting LPG incident response, immediate mitigation activities to be considered and LPG fire suppression concepts. Students will be led through a series of actual LPG incident scenarios to reinforce their understanding of mitigation techniques as they relate to LPG.

- **Media Relations**

Information is also provided to assist firefighters in dealing with questions posed by media during an incident. This section includes interactive exercises that support the understanding of key messages related to LPG.

About the Propane Gas Association of Canada

The Propane Gas Association of Canada (PGAC) is the national voice of the propane industry in Canada. As a not-for-profit organization, the PGAC supports the propane industry in the continued growth of propane usage in Canada and in its pursuit of an environmentally responsible and safe industry. The Propane Training Institute (P•T•I), PGAC's training division, satisfies legislated training requirements by providing training to over 22,000 students annually through its 1000 certified trainers.

The LPG Emergency Response Corporation (LPGERC), PGAC's emergency response subsidiary, provides highly trained teams located across Canada to assist in the implementation of Emergency Response Assistance Plans (ERAP) required by the federal Transportation of Dangerous Goods Act. LPGERC responds to incidents involving all products classified under UN1075 – Liquefied Petroleum Gases. LPGERC through its strategically positioned Response Teams is ready to respond at anytime for approximately 200 Plan Participants who are also members of the Propane Gas Association of Canada. LPGERC is the only LPG-specific response organization in Canada able to respond to all modes of transportation in addition to responding to incidents involving stationary containers of 450 L or greater capacity.

For more information, contact Bill Egbert, General Manager – Propane Training Institute at 403-543-6506, toll-free at 1-877-784-4636 or by email at begbert@propanegas.ca.

