



Flammable Gas Training Programs

The MFA houses the only liquefied natural gas (LNG) training site in the eastern United States. Our programs provide training to the fire service and to industry for handling incidents involving LNG, natural gas, and propane gas. Through classroom instruction and real world props, students learn to safely and effectively manage incidents involving these products.

Basic Liquefied Natural Gas

Course Number: 414 Certificate Type: Attendance
Hours Total: 8 Classroom: 2 Practical: 6
FCC: TBD FPO: TBD OEMS: No

This 8-hour course introduces students to controlling and extinguishing liquefied natural gas (LNG). Classroom and hands-on experience are included. Students learn to handle LNG emergencies beginning with the properties and behaviors of LNG. Transportation, storage, and use of LNG are reviewed as well as meters and their use in gas emergencies. Hands-on exercises consist of controlling or extinguishing leaks and fires involving LNG.

Basic Propane

Course Number: 416 Certificate Type: Attendance
Hours Total: 8 Classroom: 2 Practical: 6
FCC: TBD FPO: TBD OEMS: No

This 8-hour course introduces students to controlling and extinguishing propane. Classroom and hands-on training are included. Students learn to handle propane emergencies starting with the properties and behaviors of propane. Transportation, storage and use are reviewed as well as meters and their use in gas emergencies. Hands-on exercises consist of controlling or extinguishing leaks and fires involving propane.

Command and Control of Gas Emergencies

Course Number: 411 Certificate Type: Attendance
Hours Total: 8 Classroom: 8 Practical: 0
FCC: TBD FPO: TBD OEMS: No

This 8-hour course is for fire officers and firefighters in charge of emergency calls involving liquefied petroleum gas (LPG), liquefied natural gas (LNG), or natural gas. This classroom program identifies the properties of these gases and components of the gas distribution system. Through classroom

lecture and interactive scenarios, students learn procedures for safely handling gas emergencies.

Ethanol for First Responders

Course Number: 266 Certificate Type: Attendance
Hours Total: 6 Classroom: 5 Practical: 1
FCC: 0 FPO: 0 OEMS: Yes

This 6-hour program introduces first responders to the risks and challenges of emergencies with small and large volume gasoline/ethanol blended fuels and denatured ethanol. Topics include: properties and production of ethanol, transportation modes, primary and secondary hazards, public protective actions and firefighting methods. The program stresses the use of alcohol resistant foams and dry chemical extinguishing agents because ethanol is a polar solvent. The program includes a live demonstration of alcohol resistant aqueous film-forming (AR-AFFF) foam and dry chemicals on an ethanol fire.

Flammable Gas Firefighter Training

Course Number: 399 Certificate Type: Attendance
Hours Total: 16 Classroom: 8 Practical: 8
FCC: TBD FPO: TBD OEMS: No

This is a 2-day, 16-hour course that combines one day each of classroom and practical applications. Day one of this program teaches students the general properties of flammable gases, the movement, transportation and storage of these materials, distribution systems, and high and low pressure containers. Day two puts students in real life situations, handling flammable gases. Students learn to contain these products after a release, control vapors using hose streams, and practice extinguishment techniques using dry-chemical extinguishers.

Flammable Gas Firefighter Training: Classroom**Course Number: 401 Certificate Type: Attendance****Hours Total: 8 Classroom: 8 Practical: 0****FCC: TBD FPO: TBD OEMS: No**

Day one of flammable gas training covers the properties of flammable gases including the effects of temperature and pressure as they relate to firefighting. Students must successfully complete this classroom portion of the course prior to acceptance into the practical session (course 402).

Flammable Gas Firefighter Training: Practical**Course Number: 402 Certificate Type: Attendance****Hours Total: 8 Classroom: 0 Practical: 8****FCC: TBD FPO: TBD OEMS: No**

Day two of the Flammable Gas Firefighting Training provides students with hands-on experience with the effects of temperature and pressure on gases in firefighting. The program includes evolutions on gas-fueled equipment. Courses 401 and 402 must be attended during the same semester.

Prerequisite: Successful completion of course 401, Flammable Gas Firefighter Training: Classroom.

Liquefied Natural Gas – Awareness**Course Number: 415 Certificate Type: Attendance****Hours Total: 4 Classroom: 4 Practical: 0****FCC: TBD FPO: TBD OEMS: Yes**

This 4-hour course is the classroom portion of the Basic LNG course. Students learn the basic principles of LNG, including storage and transportation. Through case studies and scenarios, students learn how to safely deal with an LNG emergency. This course is an introduction to LNG and LNG emergencies.

Propane – Awareness**Course Number: 417 Certificate Type: Attendance****Hours Total: 4 Classroom: 4 Practical: 0****FCC: TBD FPO: TBD OEMS: No**

This course is an introduction to propane and propane emergencies. This course is the classroom portion of Basic Propane. Students learn the basic principles of propane, including storage and transportation. Through case studies and scenarios, students learn how to safely deal with a propane emergency.

Flammable Gas Training Area

exposes students to firefighting techniques involving three types of flammable and/or cryogenic liquids and gases: liquefied petroleum gas, liquefied natural gas, and natural gas.

