

Responding to Natural Gas Emergencies – Estimated Time: 45-60 minutes

1. Introduction to Natural Gas

Overview

Scope and Players

Natural Gas industry

Emergency Responders

Standards, Codes and Regulations

Federal Agencies and Regulations

OSHA

Trade Associations

Damage Prevention Organizations

Summary

2. Understanding Natural Gas Overview

Overview

Transmission and Distribution

Pipeline Accident Prevention Programs

Characteristics of Natural Gas

Odorizing Natural Gas

Physical Properties of Natural Gas

Chemical Properties of Natural Gas

Other Hazards of Natural Gas

Transmission Operations

Wells and Gathering Lines

Processing / Treatment Facilities

Transmission Pipeline Markings

Natural Gas Pipe and Pressure

Compressor Stations

Storage Facilities

Appliance Shutoffs

Caution - Main Valves and Customer Valves

3. Responding to Natural Gas Emergencies

Overview

The Eight Step Process© Managing the Incident

Step 1: Site Management & Control

Step 2: Identify the Problem & Materials Involved

Step 3: Evaluate Hazards & Risks

Case study- "Routine Odor of Gas"

Step 4: Select Protective Clothing & Equipment

Step 5: Develop a Plan of Operation

Natural Gas Release Strategies

Step 6: Implement Response Objectives

General Response Considerations

Tactical Response Actions

Safety Warning - Know Your Valves

Controlling the Flow of Gas

Step 7: Handle Decontamination & Clean Up

Step 8: Implement Termination Activities

Summary