



## Part 6 Class- Leak Survey/Leak Investigation

### NY

**Training-** 3 Day Session..... (Hands-On 2 Hours) 24 Hours  
**Testing** (48 Hours after Training)- 1 Day Session..... 8 Hours

### PA

**Training-** 2 Day Session..... (Hands-On 2 Hours) 16 Hours  
**Testing** (12 Hours after Training)- 1 Day Session..... 8 Hours

**NOTE:** NY will qualify in the **NFG HYB** series and PA will qualify in the **NFGPA** series. NFG Trainer will discuss the specifics/differences of each series during class.

### **Classroom Training:**

- Class Overview
- Safety/PPE

### **Covers Tasks:**

- 18A-Conducting Gas Leakage Surveys (Mobile and Walking)
- 19A- Patrolling and Inspecting Pipelines
- 20A- Investigating Leak and Odor Complaints
- 20D- Leak Classification
- 41/42- Inspecting/Lubricating, Repairing and Operating Distribution Valves **OR**
- 26/27- Inspecting/Lubricating and Operating Valves Transmission
- National Fuel Procedure Manual Sections Referring to Material Listed Above.

### **Hands-On Training:**

- Leakage Surveys
- F.I. Unit Operation ( Including how to fill up unit)
- Leak Reports (Writing and Classifying)
- Leak Pinpointing
- Valves

### **Testing:**

- Written Test (WE)-18A Conducting Gas Leakage Surveys (Mobile and Walking Surveys)
- WE-19- Patrolling and Inspecting Pipelines
- WE-20A-Investigating Leak Odor Complaints (Inside and Outside)
- WE-20D-Leak Classification
- WE-41/42- Inspecting/Lubricating, Repairing and Operating Distribution Valves **OR**
- WE-26/27- Inspecting/Lubricating and Operating Valves Transmission
- WE-806- Part 6 Operating and Maintenance Procedures
- Performance Evaluation (PE) -18.1- Leak Survey



**Below is the Covered Tasks Listing the Domains and Elements that will be covered during Training Class**

**COVERED TASK #18A: Conducting Gas Leakage Surveys**

1. Mobile Surveys
  - a. Knowledge of equipment and resources used in mobile surveys
  - b. Knowledge of factors and conditions affecting accuracy of mobile survey results
  - c. Knowledge of appropriate responses to situations hindering mobile surveys
2. Walking Surveys
  - a. Knowledge of transmission and main survey practices
  - b. Knowledge of service survey practices
  - c. Knowledge of business district survey practices
  - d. Demonstrate procedure for performing a walking survey

**COVERED TASK #19A: Patrolling and Inspecting Pipelines**

1. Pipeline Right-of-Way Inspections
  - a. Knowledge of right-of-way surface conditions indicating a potential leak
2. Pipeline Markers
  - a. Knowledge of pipeline marker installation practices
  - b. Knowledge of maintenance practices for pipeline markers
  - c. Knowledge of specifications for pipeline marker signs
3. Exposed / Above Ground Mains
  - a. Knowledge of facility inspection requirements



## **COVERED TASK #20A: Investigating Leak/Odor Complaints**

1. Fundamentals of Leak Investigation
  - a. Knowledge of equipment used in investigating leak or odor complaints
  - b. Knowledge of alternate ways of detecting leaks
  - c. Knowledge of other sources of odor complaints
2. Outside Leak and Odor Complaints
  - a. Knowledge of pinpointing procedure
  - b. Knowledge of leak migration
3. Inside Leak and Odor Complaints
  - a. Knowledge of inside leak detection methods
  - b. Knowledge of evacuation and ventilation procedures
4. Documentation
  - a. Knowledge of documentation requirements for leak or odor investigations

## **COVERED TASK #20D: Leak Classifications**

1. Leak Classification
  - a. Know how to classify Grade/Type 1 leaks
  - b. Know how to classify Grade/Type 2 leaks
  - c. Know how to classify Grade/Type 3 leaks

## **COVERED TASK #26/27: Inspecting/Lubricating and Operating Valves Transmission**

1. Valve Inspection
  - a. Knowledge of valve location and accessibility
  - b. Knowledge of valve type and specifications
  - c. Know when and how to check for the presence of gas
  - d. Knowledge of valve box installation and maintenance
  - e. Know how to evaluate the physical condition of a valve
2. Valve Operation
  - a. Knowledge of number of valve turns
  - b. Knowledge of valve position prior to operating
  - c. Knowledge of valve functions



3. Valve Lubrication and Repair
  - a. Knowledge of valve lubrication and repair process
4. Abnormal Operating Conditions
  - a. Know how to identify and respond to a difficult to operate or inoperable valve
  - b. Know how to respond to the presence of gas at a valve
  - c. Know how to respond to a valve leak through
  - d. Know how to respond when a valve has no markings

### **COVERED TASK 41/42: Inspecting, Lubricating, and Operating Distribution Valves**

1. Valve Inspection
  - a. Knowledge of valve location and accessibility
  - b. Knowledge of valve type and specifications (e.g., ratings)
  - c. Know when and how to check for the presence of gas
  - d. Knowledge of valve box installation and maintenance
  - e. Know how to evaluate the physical condition of a valve
2. Valve Operation
  - a. Knowledge of number of valve turns
  - b. Knowledge of valve position prior to operating
  - c. Knowledge of valve functions
3. Valve Lubrication and Repair
  - a. Knowledge of the valve lubrication and repair process
4. Abnormal Operating Conditions
  - a. Know how to identify and respond to a difficult-to-operate or inoperable valve
  - b. Know how to respond to the presence of gas at a valve
  - c. Know how to respond to a valve leak through
  - d. Know how to respond to an inaccessible valve
  - e. Know how to respond when a valve has no markings