



Part 6 Class- Leak Survey/Leak Investigation

NY

Training- 2 Day Session..... (Hands-On 2 Hours) 16 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