Line Locating Class

NY

Training- 3 Day Session…… (Hands-On 4 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:

- 21 - Line Locating and Mark Out
- 22B - Inspecting of 3rd Party Excavations for Damage Prevention (NFG **PERSONAL ONLY**)
- 23/24 – Inspecting the Condition of Exposed Pipe
- 40 – Install/Replace Tracer Wire (**ONLY IF NOT QUALIFIED IN 31A)**
- State Specific Damage Prevention

Hands-On Training:

- Line Locating Equipment
- Tracer Wire Installation
- National Fuel Mapping System

Testing:

- Written Evaluation (WE) -21 - Line Locating and Mark out
- WE - State Specific NY/PA
- WE-22B - Inspecting of 3rd Party Excavations for Damage Prevention (**NFG ONLY**)
- WE-23/24 – Inspecting the Condition of Exposed Pipe
- WE-40 – Install/Replace Tracer Wire (**ONLY IF NOT QUALIFIED IN 31A**)
- Performance Evaluation (PE) -21.1 Line Locating and Mark Out

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

COVERED TASK #21: Line Locating and Mark Out

1. Marking
- a. Knowledge of marking colors
- b. Knowledge of where to mark

2. Fundamentals of Locating
- a. Demonstrate ability to read maps
- b. Knowledge of alternate methods used when maps are not available or are not correct
- c. Knowledge of the effects of soil characteristics on locating
- c. Knowledge of electromagnetic characteristics
- d. Knowledge of documentation requirements

3. Conductive Locating
- a. Knowledge of the conductive method
- b. Knowledge of grounding techniques
- c. Demonstrate locating process using the conductive method

4. Inductive Locating
- a. Knowledge of the inductive method
- b. Demonstrate locating process using the inductive method

5. Abnormal Operating Conditions
- a. Know how to identify and respond to missing or broken tracer wire
- b. Know how to respond to difficulty locating pipeline

TASK #22: Inspection of 3rd Party Excavations for Damage Prevention

1. Pipe Separation and Depth
   a. Know how to identify perpendicular and parallel trench conditions of encroachment
   b. Knowledge of pipe depth requirements
   c. Knowledge of utility separation requirements

2. Inspecting for Adequate Pipeline Support
   a. Know how to identify inadequate bracing of a pipeline
   b. Know how to identify undermined pipelines
   c. Knowledge of proper blasting operations around a pipeline facility

3. Excavator and Operator Practices
   a. Knowledge of requirements and exemptions for notification of excavations and demolitions
   b. Knowledge of directional bore practices
   c. Knowledge of excavator responsibilities for protecting underground utility lines and locate markings
   d. Know facility information needed by an operator for facility locating
   e. Knowledge of operator practices related to abandoned lines

4. Damage Investigation for Root Cause Determination (Evaluation A ONLY)
   a. Knowledge of information to be gathered and reported
   b. Know how and when to report a reportable incident
   c. Know how to perform a root cause investigation

5. Abnormal Operating Conditions
   a. Know how to respond to potential pipe damage resulting from excavation or demolition
      Know how to respond to damage prevention violations

TASK #23/24: Inspecting the Condition of Exposed Pipe

1. Types of Pipe and Coating
   a. Knowledge of the different types of pipe materials
   b. Knowledge of the different types of coating materials

2. Inspecting for Pipe and Coating Damage
   a. Knowledge of external pipe inspection practices
   b. Know how to identify gouges, nicks and scratches
   c. Know how to identify actual or potential facility damage due to improper installation
   d. Know how to identify coating damage

3. Abnormal Operating Conditions Involving Exposed Pipe
   a. Know how to respond to damage found on exposed pipe

TASK #40: Install/Replace Tracer Wire

1. Pipe Locating Material Installation
   a. Knowledge of the materials used to assist with pipe locating and the installation process
   b. AOC - Know how to respond to tracer wire failure