



Line Locating Class

Training- 2 Day Session.....(Hands-On- 6 Hours).....16 Hours

Testing (48 Hours after Training)- 1 Day Session.....6 Hours

NOTE: Failed Hands-On Evaluations will be charged a retesting fee, and must be done by a NGA evaluator (Minimum time is 48 Hours after a failed evaluation)

Classroom Training:

- Class Overview
- Safety/PPE

Covers Tasks:

- 21- Line Locating and Mark
- 22B- Inspecting of 3rd Party Excavations for Damage Prevention (NFG PERSONAL ONLY)
- 40- Repair Tracer Wire (ONLY IF NOT QUALIFIED IN 31A)
- State Specific Damage Prevention
- National Fuel Procedure Manual Sections Referring to Material Listed Above.

Hands-On Training:

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

Testing:

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- NGA-WE-21- Line Locating and Mark out
- NGA-WE-State Specific NY/PA
- NGA-WE-22B- Inspecting of 3rd Party Excavations for Damage Prevention(NFG ONLY)
- NGA-WE-40-Repair Tracer Wire (ONLY IF NOT QUALIFIED IN 31A)
- NFG-WE-800-Line Locating- Operating and Maintenance Procedures
- HANDS-ON-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
- 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 #40: Installing/Replacing 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