

## CPGA – Locate Training

Prerequisite for Course: Experience with Utility Locating

Required Safety Attire: Safety Vest & Proper PPE

Attendees are required to bring their own Locating Equipment

### AGENDA:

- Welcome and Introductions
- Types of Equipment
- Basic Locating Principles
  - Theory
    - AC/DC
    - Round signal vs non round
    - Creating a round signal
      - I. Change frequencies
      - II. Change grounding point
      - III. Change hook up point
      - IV. Conductive vs Inductive
  - Best Practices in Verifying Locates
    - Peak & null agree
    - Triangulation
    - Depth calculation
    - Logical termination point
  - Tolerance Zones
    - Large diameter facilities
    - Sub aqueous facilities
  - Best Practices
    - Deciphering good information from bad information
- RoundTable
  - Review Different Types of Locating Instruments
    - What do you use?
    - What are the benefits of each instrument?
  - Ground Penetrating Radar (GPR)
    - Basic principles/soil types
    - Pros and Cons
    - Who uses GPR technology?
  - Ticket Management Systems
    - What kind of Ticket Management system does your company use?
    - Reducing Liability using pictures
  - Damage Reporting/Damage Investigation (Hit Kit)
    - Who performs damage investigations?
    - How do you report damages to the appropriate utility owner?
  - Communicating with Construction Contractors/Excavators
    - Do Contractors/Excavators Verifying Locates in your area?
    - Do contractors in your area practice white lining?
    - Maintaining good relations with Utility Owners and Excavators
  - Abnormal Operating Conditions
    - Gas Leaks

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- Atmospheric Corrosion/
  - Damaged Pipeline Markers
  - Gas Meters in Hazardous Locations
  - Safety Issues
    - Temporary Traffic Control
    - Personal Protective Equipment
    - Construction Sites/Being Aware of your Surroundings
  - Training/Certifications
    - What is your company's trainings process?
    - Does your company require locators to be certified?
    - Operator Qualifications
  - Advanced Troubleshooting
    - When do you use specific instruments?
    - Who uses traceable insertion tools for live gas services/mains? What are the benefits?
    - How to determine bleed off on other utilities and how to correct
- Hands on Field Training
  - Various Different Locates