Fundamentals of Underground Utility Locating Theory, and Applications Hands-on Training
A new training course presented by the New Jersey Water Association and Eastcom Associates

Course Objective: To teach the basic theory behind electromagnetic locating, understand the different functions and options offered by today’s instruments, and learn how to maximize its use in the field. The course is oriented towards everyday applications.

Who will benefit from this Course? Water and wastewater operators, technicians, engineers, supervisors, foremen and others involved in locating underground utilities will benefit by learning how locators work, and why they behave in certain ways in real world applications. The course consists of 3 hours classroom presentation plus 1 hour hands-on use of equipment (indoors or outdoors depending on weather).

Agenda:
8:00-8:30  Sign-in
8:30-1:00  Why Locate?
          Background and brief history of locating
          Technologies available today
          Electromagnetic fields
          Break (15 Minutes)
          Passive and Active signals
          Passive signals a) where do they come from? b) types of passive signal
          Active Signals
          a) methods of application
          b) how to verify a good signal is applied
          c) frequencies
             i) High vs Low
             ii) Pros/Cons
          Aerials for locating a signal on a line – receiver response
          Break (15 Minutes)
          Advanced tools
          a) depth estimation
          b) current readings
          c) current direction
          Locating techniques
          a) Steps to an accurate locate
          b) Locating nonmetallic lines – GPR
          Locating a Sonde
          Troubleshooting a locate – distortion
          Practical
1:00      Dismissal

Instructor: Eric Denslow, Eastcom Associates  -  4 years at the Ocean Twp. MUA in Ocean County, NJ. Operated the water plants, repaired water mains, maintained sewer system and sewer lift stations, responded to mark out requests for water and sewer, etc.  2 years at the New Jersey Water Association as a Circuit Rider. Performed pipe locating and water leak detection services for small water systems throughout NJ.  6+ years Eastcom Associates, Inc. Responsible for the water and sewer industry in NY and NJ and cover all other underground industries throughout New England.

Accreditation:
4.0 Training Contact Hours for NJ-Licensed Water/Wastewater Operators. TCH Course Number 04-021510-30
4.0 Hours toward license renewal for NJ Certified Public Works Managers CPWM Course # DLGS-NJWA-70 (4.0 Technical)

Dates and Location:
March 31, 2015, at the Brooklawn Community Center, 101 2nd Street, Brooklawn, Camden County
April 29, 2015, at the Wharton American Legion, 99 North Main Street, Wharton, Morris County

Registration:
This course is free of charge. Pre-Registration is required. www.njwater.org.