
Overview

This Standard is about using techniques to find the location of water pipes, surface fittings and street furniture. Water pipes may be metallic or non-metallic. Surface fittings may be valve covers, meter chamber covers or hydrant covers. Street furniture may be lamp columns, telegraph poles or road signs.

This includes using visual, electronic and measurement techniques and referring to records, marking positions on work sites and reporting deviations to relevant people. Safety and hygiene procedures should be followed at all times.

This Standard is for anyone who traces the routes of water pipes and locates surface fittings and street furniture.

Performance criteria

You must be able to:

1. select tracing techniques and equipment that are appropriate to the type of water pipe being traced
2. confirm the condition of tracing equipment in accordance with organisational requirements
3. use reliable information to identify the location of cables, petroleum lines and gas pipelines to prevent safety problems during pipe tracing activities
4. collate information from records, surface evidence and tracing techniques to form an accurate prediction of the position of water pipes, surface fittings and any street furniture
5. trace water pipes over the required distance to within specified limits in accordance with organisational requirements
6. mark positions of water pipes, surface fittings and street furniture on work sites in accordance with organisational requirements
7. record and report deviations in positions of waters pipes, surface fittings and street furniture to relevant people in accordance with organisational requirements
8. follow safe working and hygiene processes in accordance with approved procedures and practices at all times

Knowledge and understanding

You need to know and understand:

1. regulations, company procedures, specifications and processes relating to health, safety, environment, emergencies and hygiene
2. tracing techniques and when it is appropriate to use them including visual, electronic (induction, connection and radio) and measurement
3. implications of tracing activities on water quality
4. tracing equipment used for different techniques and their limitations
5. how to select appropriate functions on tracing equipment
6. how to check and use tracing equipment
7. the importance of locating cables, petroleum lines and gas pipelines
8. how to interpret non-conventional markings including marker posts
9. how to access current plans and records
10. how to interpret records, plans and surface evidence of route of mains
11. procedures to be used when tracing pipes and locating surface fittings and street furniture
12. procedures for marking the route of mains
13. specified limits for tracing water pipes
14. organisational reporting requirements

EUSLDC2

Trace the route of water pipes and locate surface fittings and street furniture



Developed by Energy & Utility Skills

Version Number 2

Date Approved December 2018

Indicative Review Date December 2021

Validity Current

Status Original

Originating Organisation Energy & Utility Skills

Original URN EUSLDC3

Relevant Occupations Engineering; Water Leakage Detection Technician; Water Network Technician

Suite Leakage Detection and Control

Keywords tracing techniques; valve, meter chamber and hydrant covers
