

“Sample Collection and Sampling Plans”

Analytical data produced by any laboratory is only defensible if proper sample collection, preservation, and storage procedures are applied. The first link in the long chain of a sample's life is the sample collection site. The determination of where and when to collect a sample is as important as the type of sample, proper sample preservation and storage, or the analysis itself. Incorrect or inconsistent sample collection locations can lead to misleading conclusions and invalidated regulatory samples or investigatory studies. This is why developing a sample collection plan is essential for any compliance related monitoring, exploratory study, or investigation.

Once we are confident we collected the appropriate site and time for our sample collection it is essential to consistently follow the correct sample collection, preservation, and storage procedures to assure the laboratory receives a sample that has been properly prepared for the requested analysis.

In our “**Sample Collection and Sampling Plans - Best Practices**” workshop you will:

- Learn why it is important to develop and follow a sampling plan
- Discuss what information you should include in a sampling plan
- Explore the characteristics and requirements of a variety of sample types (solid vs aqueous, grab, composite, split)
- Become familiar with commonly used sample collection equipment
- Identify recommended maintenance of sample collection equipment
- Study correct sample collection, preservation, storage procedures for the parameters:
 - Total & Fecal Coliform
 - pH
 - Turbidity
 - BOD
 - Solids (TSS, VSS, TS, VS, TDS)
 - Total & Fecal Coliform
 - Nutrients (Nitrates, ammonia, phosphate)
 - Metals
 - Organics

This 3 hour Live Online "Sample Collection and Sampling Plans - Best Practices" workshop will provide you with essential information you need to obtain or maintain your water or wastewater operator certification.