



# AL151: Waste Water Sampling and Field Testing





## Training Description:

This intensive course covers the general awareness of water and wastewater regulatory sampling and in dealing with often-complex procedures and requirements for safely handling hazardous and toxic materials. The scope of the material is quite large, requiring a major effort to bring it under control. Employee health and safety, as well as that of the public, depend upon careful application of regulations and safe working procedures.

Individuals who are responsible for water/wastewater sampling and the health and safety of workers at hazardous waste sites must obtain and comply with the most recent state and local regulations relevant to these sites and are urged to consult with OSHA, EPA and other appropriate state and local agencies.

The course will cover the required procedures and work rules relating to water and wastewater sampling.

## Training Objective:

**By the end of the training, participants will be able to:**

- ✓ Apply and gain a basic knowledge on principles of sample collection and field testing
- ✓ Discuss sampling methods and the various types of samples
- ✓ Identify sampling equipment, collection and preservation of samples
- ✓ Recognize chain-of-custody procedures, water sampling terms and definitions
- ✓ Employ sampling methods, sample storage, preservation and safety issues during sampling
- ✓ Describe basic statistics and basic water chemistry, water and wastewater analysis
- ✓ Define wastewater treatment terminology, waterborne pathogens and disease
- ✓ Carryout bacteriological monitoring as well as recognize wastewater/pretreatment sampling general information and hydraulic principles

## Training Designed for:

This course is intended for all sample collectors, control specialists, scientists, researchers, laboratory technical staff and those involved in water sampling and collection.

## Training Program:

### DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Sampling Methods
- ❖ Type of Samples
- ❖ Sampling Equipment
- ❖ Collection & Preservation of Samples

### DAY TWO:

- ❖ Chain-of-Custody Procedures
- ❖ Water Sampling Terms & Definitions
- ❖ Sampling Methods
- ❖ Sample Storage & Preservation





### DAY THREE:

- ❖ Safety Issues During Sampling
- ❖ Basic Statistics
- ❖ Basic Water Chemistry

### DAY FOUR:

- ❖ Water & Wastewater Analysis
- ❖ Wastewater Treatment Terminology
- ❖ **Practical Sessions**
  - This hands-on, highly-interactive course includes real-life case studies and exercises

### DAY FIVE:

- ❖ Waterborne Pathogens & Disease
- ❖ Bacteriological Monitoring
- ❖ Wastewater/Pretreatment Sampling General Information
- ❖ Hydraulic Principles
- ❖ Course Conclusion
- ❖ POST-TEST and EVALUATION

## Training Requirement:

“Hand’s on practical sessions, equipment and software will be applied during the course if required and as per the client’s request”.

Please note that the above topics can be amended as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

## Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Software & General Discussions
- Pre and Post Test

## Training Certificate(s):

Internationally recognized certificate(s) will be issued to each participant who completed the course.

## Training Fees:

**As per the course location** - This rate includes participant’s manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01<sup>st</sup> of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.





## Training Timings:

### Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

### For training registrations or in-house enquiries, please contact:

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Training & Career Development Department