



# AL042: Laboratory Control of a Wastewater Treatment Plant

### Training Description:

This course is designed to give a wide understanding and assist for people currently working in wastewater treatment operations and wastewater laboratory.

### Training Objectives:

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

- ✓ Have depth knowledge in basic Math, Chemistry and Biology

### Training Designed for:

This course is intended for all Laboratory staff, Chemist, Laboratory technicians, Environmental Specialist, Wastewater Treatment Plant Operators, Treatment plant engineers and anyone involved in microbiological analysis.

### 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.”**

**Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.**

### Training Program:

#### DAY ONE:

- ❖ Water and Wastewater Sampling
  - Introduction
  - Areas of Sampling

#### DAY TWO:

- ❖ Radiochemistry
  - Introduction
  - Sample Collection
  - Laboratory Practices
  - Quality Control

#### DAY THREE:

- ❖ Microbiology
  - Background
  - Specific Needs in Microbiology
  - Intra laboratory Quality Control
  - Inter laboratory Quality Control
  - Development of a Formal Quality Assurance Program
  - Documentation of a Quality Assurance Program
  - Chain-of-Custody Procedures for Microbiological Samples

#### DAY FOUR:

- ❖ Aquatic Biology
  - Summary of General Guidelines
  - Discussion

- Case Studies
- Practical Exercises

#### DAY FIVE:

- ❖ **Laboratory Safety**
  - Law and Authority for Safety and Health
  - EPA Policy on Laboratory Safety
  - Laboratory Safety Practices
  - Report of Unsafe or Unhealthful Condition
- ❖ **Course Conclusion**
- ❖ **POST-TEST and EVALUATION**

### 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):

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

### Training Fees:

**TBA 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 01st 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 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

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

**Aisha Relativo** - Training & Career Development Manager

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