



# AL135: Water Quality Testing: *Instrumentation, Measurement, Process Control*

### Training Description:

The chemistry and biology of water is the focus of this course. Study water sampling and analysis from many perspectives – water management planning and municipal drinking water to treatment of wastewater and contaminant remediation. Learn about regulatory requirements, improving water monitoring programs, and ensuring accurate, reliable results.

### Training Objectives:

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

- ✓ Know the water sampling and analysis from many perspectives – water management planning and municipal drinking water to treatment of wastewater and contaminant remediation
- ✓ Learn about regulatory requirements, improving water monitoring programs, and ensuring accurate, reliable results

### Training Designed for:

This course is intended for aimed at professionals involved in water quality monitoring and assessment of potable waters, boiler water, brine and brackish water.

### Training Program:

#### FIVE DAYS:

- ❖ PRE-TEST
- ❖ Introduction to Water Analysis
- ❖ General Chemistries in Water
- ❖ Equipment Chemistry in Water
- ❖ Basic Biochemistry and Chemical Kinetics
- ❖ Review of General Laboratory Analysis
- ❖ Instrumental Analysis Optical
- ❖ Water Quality and Assessment
  - Water Quality Standards
  - Chemical, Physical and Biological Contaminants in Water
  - General Laboratory-Means
  - Measurements and Instrumental Analysis Based on Optical, Electrical and Chromatography Methods
  - Toxicity and BOD Tests
- ❖ Water Quality and Assessment
  - Pathogenic Micro-Organisms and Microbial Examination of Water
  - Environment Sampling and Quality Control and Assurance
- ❖ Electrical
- ❖ Chromatographical
- ❖ Physical Pollutants
- ❖ Inorganic Pollutants
- ❖ Organic Pollutants
- ❖ Microbial Test and Quality
- ❖ Opening Meeting
- ❖ Audit Role Play – Stage 2

- ❖ NCR Reporting
- ❖ Corrective Action
- ❖ Audit Report
- ❖ Course Conclusion
- ❖ POST-TEST and EVALUATION

### Training Requirements:

“Hands-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 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 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

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

**Aisha Relativo:** [aisha@cmc-me.com](mailto:aisha@cmc-me.com)

Tel.: +971 2 665 3945 or +971 2 643 6653 | Mob.: +971 52 2954615

Training & Career Development Department