



# AL130: Quality Control and Assurance of Chemical Measurement





## Training Description:

This intensive course provides an introduction to methods designed to help provide analytical information that is useful and defensible, legally and technically to your data users. Laboratory quality control and assessment of chemical measurement data makes good professional and business sense. Good laboratory practices provide happy and continuing clientele, risk reduction, professionally motivated staff and confidence in the lab data.

## Training Objective:

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

- ✓ Be guided with the development and implementation of a credible quality assurance program, plus it also provides chemists and chemical researchers, and all scientists and managers the ideal means to ensure accurate and reliable work

## Training Designed for:

This course is intended for everyone who produces, uses, or evaluates scientific data, Chemical Laboratory Personnel's Chemists, and Technicians.

## Training Program:

### DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Chemical Laboratory, Terminology and roles
- ❖ Prepare to work on laboratory (equipment's, chemicals, instruments)
- ❖ Laboratory and personnel responsibility

### DAY TWO:

- ❖ Sampling (Handling, Labeling, Preparations, stores, choice methods of analysis)
- ❖ Chemical Measurement (Types of methods, selection of methods, Calibration, reference material, blank correction)
- ❖ Maintenance and troubleshooting

### DAY THREE:

- ❖ Quality control and assessment
- ❖ Evaluation of analytical data
- ❖ Reporting Analytical results

### DAY FOUR:

- ❖ Laboratory Certification
- ❖ Quality Audit (Internal and External)
- ❖ Chemical laboratory measurement evolution

### DAY FIVE:

- ❖ Correction of errors and improving accuracy
- ❖ Quality Assurance Program (Approaches, Policy, Planning, Development, Federally and non-federally mandated, relating personnel)





- ❖ Example of Quality Assurance program document
- ❖ 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:**

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Training & Career Development Department

