



# AL145: Instrumental Methods of Analysis & Quality Control in Cement Industry

## Training Objectives:

The course aims at imparting knowledge of principles, application and operation of modern analytical and quality control instruments in cement industry.

## Training Designed for:

This course is intended for Chemists, CCR Operators, Quality Control Managers and Personnel engaged in quality & process control of cement plants.

## Training Program:

### FIVE DAYS :

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Principle and application of XRD, XRF, optical microscopy, calorimetry, flame photometry, Colorimetry
- ❖ Interpretation of the data obtained from the above instruments in the context of raw material characteristics, clinker and cement quality, pyroprocessing, kiln history, quality control and process optimization
- ❖ Standard reference materials
- ❖ Methods of sampling
- ❖ Online quality control systems and laboratory automation
- ❖ Statistical quality control
- ❖ Quality management system
- ❖ **Practical Sessions**
  - This hands-on, highly-interactive course includes real-life case studies and exercises
- ❖ 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

