



Uncertainty of Measurement for Chemistry OR Microbiology Testing

One Training Day

What?

Learn basics of uncertainty in chemistry or microbiology testing. Show laboratory managers, scientists and technicians how measurement uncertainty is handled in a chemistry or microbiology laboratory.

Note: Each session is either for chemistry or for microbiology - **not both**.

Who?

For all laboratory staff involved in laboratory testing operations and QA/QC procedures:

- Writing procedures
- Conducting tests
- Conducting QA/QC
- Specifying reference materials
- Preparing standards
- Authorising reports
- Purchasing calibration services

How?

Measurement uncertainty is explained and illustrated. Participants will see case studies and will learn how to use the required statistical tools in their laboratories.

Each course chapter describes different aspects of measurement uncertainty, provides definitions of terms used and outlines the main features of the relevant literature on uncertainty of measurement.

Syllabus (09:00 - 16:30)

Introduction and Objectives

- Course aims
- Approaches to learning

Uncertainty Boot Camp

- Terms
- Definitions
- Concepts
- Worked examples

-- Break (15 minutes) --

The Little Picture - Uncertainty components related to

- preparation of standards
- spiking of samples and
- contribution of people in the estimation and control of uncertainty.

-- Lunch (1 hour) --

The Big Picture

- Taking data already acquired from a routine laboratory Quality Control program to create uncertainty budgets
- Explaining the process to others.

-- Break (15 minutes) --

Course wrap up and final examples.

Call us at (613) 233-5300

or

See http://www.cala.ca/F14-In-class_course_reg.pdf to register for this course