Workshop on Measurement Uncertainty in Chemical Analysis

Introduction

The purpose of a measurement is to estimate the 'true' value of the analyte in the sample submitted for analysis. But, the measurement processes are always subject to some random and/or systematic errors of which are difficult to be controlled. Hence, because of these errors, there is always an uncertainty.

In the quest of producing reliable and quality data in our laboratory, and to meet one of the important criteria of the ISO/IEC 17025 laboratory accreditation standards, the various approaches for the measurement uncertainty estimation have become major subjects for discussion.

Course Objectives

To learn the various statistical tools for estimating measurement uncertainty in chemical analysis

Course Duration

3 Days

Who Should Attend

Laboratory managers, chemists, analysts, QA managers, and whoever tasked to estimate the uncertainties of measurements in their respective laboratories.

Course Outline

- The basic statistical tools for measurement uncertainty
- The concept of measurement uncertainty
- Two commonest approaches for measurement uncertainty
- Basic component-by-component procedures for common analytical steps