



## Understanding ISO/IEC 17025 – Requirements for analytical laboratories

09.00 *Registration*

### Morning session

09.20 Introduction and discussion about quality

Lecture: What is quality?

- What is quality?
- Structure of a management system
- Benefits and consequences
- Terminology
- Quality standards & quality culture

Workshop: Establishing customer requirements

ISO/IEC 17025 – Laboratory requirements

- Management systems
- Requirements of ISO/IEC 17025
- Practical implementation

Key components of analytical quality assurance – Technical requirements

- Summary of technical requirements
- Introduction to:
  - Method validation
  - Measurement uncertainty
  - Traceability
  - Quality control and proficiency testing
  - Documentation

### Afternoon session

Introduction to method validation and workshop

- What is method validation?
- Why is method validation necessary?
- Key method performance parameters
- Meeting performance requirements
- Practical exercise

Monitoring method performance

- Quality control
- Proficiency testing

Workshop: How do you demonstrate what has been done

Official recognition of laboratory operations: accreditation to ISO/IEC 17025

- What is ISO/IEC 17025?
- Changes in 3<sup>rd</sup> edition
- Clauses of the standard
- Fixed and flexible scope
- Accreditation process

17:00 *Close*