

Calibration Technology



One Day Training Seminar on Pipette Calibration and Pipetting Techniques

Target Group

Our seminar is aimed at Laboratory Technicians and Analysts, Calibration Engineers, and other laboratory staff who are responsible for pipetting, pipette maintenance, calibration, and quality control.

Course Objective

On completion, course participants will be able to use correct pipetting techniques, and will understand and be able to implement routine maintenance and calibration.

COURSE CONTENT

1. Introduction

Types of Pipettes
Manual versus Electronic
How do Piston Operated Pipettes work?
Tolerance Limits
Pipette and Tip design
ISO 8655 (general and 8655:2/8655:6)
Balances and Reference weights
GLP and cGMP

2. Principles of Liquid Handling

Proper Technique
How to achieve highest accuracy and precision
Fault effects caused by User, the Pipette, and the Environment
Systematic and Random failures
Why Calibrate and Calibration Intervals
Care and Maintenance
Typical problems
Laboratory workstation and design
The need for training

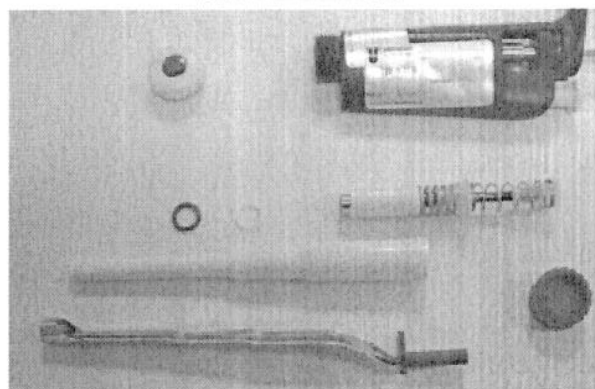
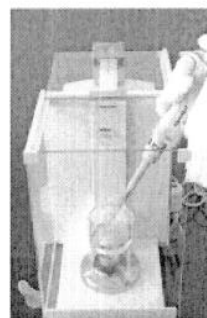
3. Practical Session

Pipetting a series of volumes
Coping with various fluids
Pipette cleaning and decontamination
Pipette calibration using the gravimetric method according to ISO 8655:6
How to minimise RSI (Repetitive Strain Injury)

4. Discussion and Questions/Answers

Duration

Start 09.30 to 11.00.
Coffee
11.15 to 13.00.
Lunch
13.45 to 16.30.



A **Training Certificate** will be issued on successful completion of the Seminar.

Location

These Seminars will be held in our Board Room and Laboratory at our premises in Innovationworks, National Technology Park, Castletroy, Limerick, or alternatively at your premises where the course content can be customised for your specific needs and time availability.