



GC Technical Training

Module Name: Quantitation and Quality Control

Time Allocated: 1.5 - 2 hours

Intended Audience: This module assumes no previous gas chromatography knowledge

.Content Covers:

- Preparation of standards
- Labeling Standards
- Serial Dilutions
- Principle of internal and external standard techniques
- Principles of standard addition technique
- Checking the validity of calibration
- Creating a calibration curve
- Use of surrogates, controls and method blanks
- Basics of Linear regression
- Checking the validity of calibration
- Reporting results
- Precision and accuracy
- Calculation of errors

At the completion of this seminar, attendees should be able to:

- Be able to prepare standards and understand serial dilutions
- Explain the difference between an internal and external standard method
- Choose the proper internal standard
- Explain the use of surrogates and when to use these
- Explain the standard addition technique
- Understand result reporting and significant figures