



## 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