



# HPLC Technical Training

**Module Name:** HPLC Troubleshooting and Maintenance

**Time Allocated:** 1.5 - 2 hours

**Intended Audience:** This module assumes no previous liquid chromatography knowledge

## Content Covers:

- Recognition of symptoms when chromatography goes 'bad'
- Common chromatographic problems and how to fix them
- Preparing the sample
- Common pump problems
- Common autosampler problems
- Correct storage of columns and fittings
- Linking the chromatographic symptom to the most probably cause
- Chromatographic peak shape
- Routine maintenance procedure to prevent system downtime
- Negative peaks
- Wandering baselines

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

- Be able to recognize common chromatographic problems
- Implement a structured approach to routine system maintenance
- Understand the main contributors to an increased system backpressure
- Understand the main causes of quantitation reproducibility problems
- Understand why peaks are negative
- Understand how detection works and what contributes to a wandering baseline