

Advanced HPLC Method Development (2 day)

Who should take this course?

If you've ever wished that HPLC method development was more logical and methodical, this is the course for you. Attendees should have at least one year of HPLC experience in the laboratory and some involvement in developing new methods or troubleshooting older ones. This course is for chromatographers who want to develop better methods faster and less expensively.

What does it cover?

This two day course includes a number of interactive workshops that encourage hands on involvement. You will learn a powerful new approach to systematic method development and:

- Learn to develop rugged methods that have superior separation reproducibility
- Design system suitability checks and validation into your method
- Understand the factors that control precision
- Learn to define your objectives clearly
- Apply the best approaches to separating mixtures that contain acids, bases, isomers or complex samples
- Take advantage of recent improvements in column technology to assist you in your method development efforts
- Develop improved problem solving techniques based on this new approach to method development
- Solve case study problems that demonstrate how this methodology works
- Apply your new knowledge to your own and other students' actual data during in-class problem solving sessions

What will I get from this course?

You will learn how to achieve the best possible chromatography, save hours of frustration and improve your results time after time. Using chromatographic computer modelling, you will solve a series of real-world problems that clearly demonstrate how this approach to method development works. The principles used in computer modelling are fully applicable to the separations in your laboratory.

Course Outline

Day 1

Introduction
Separation Basics
New Column Developments
Neutral Samples
Ionic Samples

Day 2

Ion-Pair HPLC
Gradient Elution
Dealing with Special Samples
Improving Precision
Method Validation
System Suitability

Each day's programme will include workshops to reinforce the concepts presented.

Available as an in-house or off-site course. Contact us for details