

# 1. How to Run HPLC Methods

## Course Summary

Learn how to set up and run HPLC analysis with full understanding of all the method parameters such as the column, the mobile phase, the instrumentation, and sample preparation, and how to interpret and quantify the results of the analysis.

This course is ideal for those who are new to HPLC.

## Course Outline

- HPLC method parameters:
  - Columns and stationary phase
  - Mobile phase
  - Instrumentation
  - Preparation of test solutions
  - Directions for analysis
- Setting up HPLC systems for analysis
- Interpreting results from HPLC analysis:
  - Integration
  - System suitability
  - Quantification techniques

## Practical Skills Acquired

This course will enable you to implement HPLC analytical methods by transferring the parameters from the method to your HPLC system. In addition you will be able to:

1. Understand what is meant by all the parameters in an HPLC analytical method.
2. Follow an HPLC analytical method to set up an HPLC system for analysis.
3. Run an HPLC analytical method and acquire chromatographic results.
4. Interpret chromatograms obtained from HPLC analysis.
5. Calculate analytical results for HPLC analysis.