

HPLC TRAINING COURSES

2013

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4 COURSES:

1. How to Run HPLC Methods
2. How to Develop HPLC Methods
3. How to Develop HPLC Methods for Challenging Separations
4. How to Troubleshoot HPLC

HOW TO RUN HPLC METHODS

Course 1
Part No. SS0-5943

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

DATES & VENUES:

Warrington	22.04.13
London	29.04.13

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.

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HOW TO DEVELOP HPLC METHODS

Course 2
Part No. SS0-5947

COURSE SUMMARY:

Learn how to select appropriate method conditions and perform suitable investigative experiments to obtain a set of method parameters which enables the desired separation for mixtures of analytes.

This course is ideal for those who have experience of running HPLC methods and now want to learn how to develop new methods.

COURSE OUTLINE:

- Developing an HPLC method using a 5-step strategy:
 1. Setting suitable objectives for method development
 2. Assessing all available information
 3. Selecting suitable samples
 4. Performing scouting experiments to select suitable initial conditions
 5. Optimising the method to define method parameters which achieve the desired separation

This course focuses on reversed phase mode separations.

DATES & VENUES:

Warrington	23.04.13
London	30.04.13

PRACTICAL SKILLS ACQUIRED:

This course will enable you to take a strategic approach to developing HPLC methods with an understanding of the factors which can be adjusted to manipulate the retention time of analytes. In addition you will be able to:

1. Define the objectives for the development of an HPLC analytical method.
2. Effectively assess all the available relevant information relating to the desired method, e.g. pKa of the analyte.
3. Select and prepare a suitable sample or samples to be used for the method development.
4. Select suitable scouting conditions to find a suitable column and mobile phase system.
5. Optimise the chromatographic conditions to result in the best possible separation.

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HOW TO DEVELOP HPLC METHODS FOR CHALLENGING SEPARATIONS

Course 3
Part No. SS0-5946

COURSE SUMMARY:

Learn how to implement strategies to achieve satisfactory separation for 'complex' samples and use computer modelling to develop robust and fit for purpose HPLC methods.

This course is ideal for those who have experience of developing HPLC methods but want to increase their knowledge to deal with more challenging separations.

COURSE OUTLINE:

- Reasons why some separations are 'challenging'
 - Samples containing large numbers of analytes and/or complex matrix
 - Problematic molecules and mixtures
- Implementing a 5-step strategy for method development of complex samples (see 'How to Develop HPLC Methods')
- Using computer simulation to develop fit for purpose HPLC methods

This course focuses on reversed phase mode separations.

DATES & VENUES:

Warrington	24.04.13
London	01.05.13
Leeds	18.09.13

PRACTICAL SKILLS ACQUIRED:

This course will enable you to find solutions for difficult HPLC separations. In addition you will be able to:

1. Understand why some separations can be challenging.
2. Identify potential problem separations.
3. Apply strategies to achieve satisfactory separations for 'complex' samples.
4. Use computer modelling as an aid to HPLC method development.

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HOW TO TROUBLESHOOT HPLC

Course 4
Part No. SS0-7449

COURSE SUMMARY:

Learn how to find solutions for problems encountered when running HPLC analysis by diagnosing symptoms and implementing appropriate preventative measures.

This course is ideal for those who have experience of using HPLC and now want to develop their skills further.

COURSE OUTLINE:

- Overview of the HPLC and how it works:
 - Mobile phase, pumps, injectors, columns, detectors and connections
- Common problems and preventative measures
- Problem solving strategy:
 - Assessing the symptoms
 - Making diagnosis
 - Finding the appropriate solution

DATES & VENUES:

Leeds	11.06.13
Edinburgh	12.06.13
Warrington	17.09.13
London	19.09.13

PRACTICAL SKILLS ACQUIRED:

This course will enable you to go back to your lab with a full understanding of why problems may arise with your HPLC system and give you the skills and knowledge to both prevent and resolve those problems. In addition you will be able to:

1. Understand how HPLC works and the role of each component in an HPLC system.
2. Understand how problems can arise in the individual components of an HPLC system.
3. Implement measures which prevent problems occurring.
4. Use a systematic problem-solving approach to HPLC troubleshooting.
5. Diagnose and resolve problems associated with HPLC.

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COURSE PRESENTER: OONA MCPOLIN

Oona has considerable experience and is fully qualified in the areas of both pharmaceutical analysis and training practice. She has worked as an analytical chemist in the pharmaceutical industry for over 10 years on a range of drug development projects and has been responsible for many pharmaceutical analysis training programmes during this time. Her area of expertise is in the technique of HPLC with particular interest in strategies for method development.

Oona is the author of two books, 'An Introduction to HPLC for Pharmaceutical Analysis' and 'Validation of Analytical Methods for Pharmaceutical Analysis'. Oona has obtained the industry standard qualification for training, the Certificate in Training Practice, awarded by the Chartered Institute of Personnel and Development (CIPD).

QUALIFICATIONS:

- 1993 BSc Hons Chemistry, Queen's University of Belfast
- 1994 MSc Applied Environmental Sciences, Queen's University of Belfast
- 2008 Certificate in Training Practice, Chartered Institute of Personnel and Development (CIPD). Received a High Achiever's Award from the CIPD NI branch

AFFILIATIONS:

- Member of the Royal Society of Chemistry (MRSC)
- Chartered Chemist (CChem)
- Chartered Scientist (CSci)
- Associate member of the Chartered Institute of Personnel and Development (CIPD)



HPLC TRAINING COURSES

2013

PRICES AND OFFERS

Each training course is just £249 + VAT

For this you will receive:

- First class, independent HPLC training
- Training materials booklet
- Post-training online assessment, with certificate of completion
- Lunch and refreshments

MULTIPLE COURSE DISCOUNTS:

COURSES BOOKED:	LIST:	YOU PAY:
1 COURSE	£ 249	£ 249
2 COURSES	£ 498	£ 459
3 COURSES	£ 747	£ 675
4 COURSES	£ 996	£ 849

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Fax: 01625-501796
Fax: +44 1625-501796

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