

TRAINING COURSE

How to Run HPLC Methods

[Total Learning time = 5 hours]

This course is a great starting point for those wanting to use HPLC. 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 the results of the analysis.

Learning Objectives:

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.

The course is delivered using a combination of presentations and exercises in which extensive use of case studies provides real life experience, it will enable you to implement HPLC analytical methods by transferring the parameters from the method to your HPLC system.

Attendees are invited to bring along any real life examples that they would like advice on during the training. These may be discussed during group exercises, or, where intellectual property is an issue, privately with the trainer.

Delivery options for this course:

This course is available either as an open enrolment option, where anyone can book onto the course, or as an in-house option where the course is run for employees in a specific company.

The open enrolment option is delivered as a 1 day 'virtual' live online training event which is delivered over a 6 hour period, from 9am to 3pm, including breaks. There is an optional additional session from 3:15pm to 4:15pm where

the trainer is available to answer questions, if desired.

The time zone is typically based on GMT (UTC) from November to March, and BST (UTC+1) from April to October.

The agenda is provided on (page 3) and the full schedule of dates is available on the MTS website, [click here](#).

The in-house option may be delivered either in the live online format or in a classroom based format at your site. In-house training may include customisation to meet specific requirements.

This course is suitable for:

Those who are new to HPLC and want to know more.

For example:

- Analytical chemists in industry (the course is not specific to a particular industry)
- Researchers who need to use HPLC

Included in the course fees:

- Comprehensive course hand-outs - The training book is provided as an electronic copy (pdf) for both live online and classroom based options.
- Certificate of Attendance
- Optional post training assessment (accessed in e-MTS, our learning management system) which leads to a Certificate of Training.
- Access to training materials via e-MTS
- Post training support – Attendees can contact the trainer with questions that may occur when they apply their learning to real life situations.

Course Agenda & Outline

Live Online Training Option

Timings

(approximate) Content

0900 to 1030 Basic overview of HPLC and how it works
HPLC method parameters:

- Columns and stationary phase

1030 to 1045 *Refreshment break*

1045 to 1130 HPLC method parameters continued:

- Mobile phase
- Instrumentation
- Preparation of test solutions
- Directions for analysis

1230 to 1315 *Lunch*

1315 to 1500

- Setting up HPLC systems for analysis
- Interpreting results from HPLC analysis:
 - Integration
 - System suitability

1500 to 1515 *Refreshment break*

1515 to 1615 *Optional session*
Q&A
