

Introduction to LC-MS (1 day)

Who should take this course?

This course is for chromatographers who need to gain a basic understanding of LC-MS. It will also be useful for managers or other lab staff who would like a foundation of understanding to help communicate with workers involved in LC-MS analysis. Examples centre around the most common applications of LC-MS – the analysis of drugs in biological extracts. No previous experience of HPLC is necessary, although the course will be especially valuable to those with some chromatography experience.

What does it cover?

This one-day course gives an overview of mass spectrometric detection and how it works. You will learn about the different kinds of MS detectors and their applications. The basic practices required to get dependable data from LC-MS will be explained. The principles of sample preparation will be presented as well as techniques to get the most out of the instrument:

- Overview of the most popular MS techniques
- How a quadrupole and ion-trap mass filter works
- Calibration and tuning
- MS vs. MS-MS
- Qualitative analysis
- Introduction to method development
- Techniques to get the most from your LC-MS

What will I get from this course?

You will learn how a mass spectrometer works, the advantages (and limitations) of adding mass spectrometric detection to your liquid chromatographic analyses and the basic procedures needed to get the most out of the LC-MS instrument. This course will give you a solid grounding on which to further build your LC-MS expertise.

Course Outline

Overview of LC-MS	Calibration and Tuning
Principles of quadrupole mass analyzers	Qualitative analysis
Basics of quadrupole instrumentation	Developing the MS method
The molecular ion	Developing the LC method

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



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