

SPME (Solid-Phase Microextraction) for GC Training Course

>Course Details

This is a 1-day special topics course on solid-phase microextraction (SPME) that will be held twice a year. SPME is a solvent-free sample preparation technique used for extracting volatile and semi-volatile analytes for analysis by GC. SPME involves the use of a special fibre coated with either a liquid or a solid phase. The quantity of analyte extracted by the fibre is proportional to the quantity of analyte in the sample. After extraction, the SPME fibre is transferred and injected into a GC, where the analyte is desorbed and the analysis is complete.

>Why do I need to know about SPME?

The challenge for many analysts is ensuring their instruments can see the target analytes in their samples to begin with. SPME is an attractive sample preparation method for the following reasons:

- extraction of volatile and semi-volatiles analytes is fast and simple
- extraction is solvent -free
- detection limits reach ppt levels –ideal for trace analysis
- easy on-site sampling can be obtained
- ideal for short-term storage of samples without loss of volatiles
- ideal for handling all types of analyte polarities

This versatile technique finds application in nearly every branch of analytical chemistry: environmental, pharmaceutical, food and flavour, fragrances, petroleum industry, etc. This technique can be carried out manually or automatically, and is ideal for qualitative as well as quantitative analysis.

>Who is the 1-day SPME Training Course for?

This course is designed for chemical analysts interested in sampling techniques that are fast, solvent-free and ideally suited for trace analysis. In this course we will study the fundamental principles of SPME, the actual sampling technique used, and we will cover examples illustrating the different uses of SPME. Method development and optimisation will be reviewed with a practical approach in order to be able to put to practice the technique.

>Who attends?

Academic based lab technicians, commercial lab analysts & R&D staff, post-doc, PhD and MSc Students, lab managers/supervisors, sales and marketing personnel and service engineers from across Europe, Middle East, Asia and Africa.

>What's different about training with us?

Because we teach the practical application of techniques, our courses are well positioned to enable analysts to use different analytical instrument models. Since most laboratories have instruments from different manufacturers, this is a key benefit in attending our courses. Just like driving a car, analysts are able to quickly able to navigate their own way around their own samples and instruments through application of techniques.

>Overview of course:

- General Principles of SPME
- Types of samples amenable to this technique
- Stepwise description of sampling technique
- Video illustration of the sampling steps to follow
- Direct extraction vs. headspace extraction
- Method development: types of extraction fibres
- Qualitative and quantitative analysis
- Related techniques
- Examples

>Key details:

- Classroom based course
- Budget airline destinations
- Comfortable training facilities
- Certificate of attendance provided
- Training manual provided (English)
- Discounted hotel accommodation available
- Easy accessible venue with local transportation
- Courses presented in English by industry-served and PhD qualified experts

>Enquiries or to **book a course** please contact Caroline Green at cgreen@amoebasciences.eu

>Visit our website: www.chromatographytraining.org for a list of frequently asked questions, how to prepare to put forward a case for training, how best to prepare to attend a course, and what you can expect to gain from a course at your level.

>**Price Includes:** Training presentation, training manual, lunches, free resources and all refreshments and snacks.

>Course Fees / Advanced Booking Rates

Prices are exclusive of any applicable VAT and local taxes	If booked up to 20 weeks in advance	If booked up to 12 weeks in advance	If booked up to 8 weeks in advance	If booked up to 4 weeks in advance	If booked less than 4 weeks in advance
1–Day SPME for GC Training Course	£279	£297	£314	£332	£349

>**Multiple Delegate Bookings:** 5% discount applicable per each additional analyst from the same institution (includes separate departments), if booked at the same time, per course. Terms and conditions apply to all our courses (see www.chromatographytraining.org).