

LC-MS Ionisation, Fragmentation and Interpretation Training Course

>1-day LC-MS Ionization, Fragmentation & Interpretation Course

This is a 1-day special topics course examining the various ionization, fragmentation and interpretation techniques used in LC-MS for ion-confirmation. Including: EI, CI, APCI, ESI, MALDI, the mass spectrum, isotope intensity ratios, masses, bonding, functional group fragmentation, rules in fragmentation processes - all endorsed with examples.

>Why do I need to know about LC-MS Ionization, Fragmentation & Interpretation?

A key challenge in performing LC-MS analysis is ion confirmation of target analytes. This course brings together selecting the right ionisation techniques with how the ions fragment, so you can analyse target analytes and unknown compounds using the best techniques and interpret the resulting spectra with absolute confidence.

>Who is the 1-day LC-MS Ionization, Fragmentation & Interpretation Course Training Course for?

This course is designed for analysts using LC-MS in any application, but especially in R&D, drug discovery, high throughput drug and sample screening, pharmaceutical and life science R&D, clinical research and toxicology, drug safety testing and metabolite screening where ion confirmation is key.

>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:

- Ionization source
- Electron ionization (EI) & chemical ionization (CI)
- Atmospheric Pressure Chemical Ionization (APCI)
- Electrospray Ionization (ESI)
- Desorption Ionization (MALDI)
- The Mass Spectrum
- Terminology: Ions vs Peaks
- Natural Isotopic Abundances
- Atomic & Molecular Mass
- Calculated Exact Masses & Mass Defects
- A, A+1 & A+2 elements
- Isotope Peak Intensity Ratios for C containing ions (X+1 peak)

- Isotope Peak Intensity Ratios for C containing ions (X+2 peak)
- Review of bonding
- Even and Odd electron species
- Site of initial ionization
- Types of fragmentation

>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 LC-MS Ionisation, Fragmentation & Interpretation 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).