

Independent experts providing training and consultancy in the analytical science fields of **Gas Chromatography** (GC, GCxGC), **Liquid Chromatography** (HPLC, UHPLC, LCxLC), **Mass Spectrometry** (GC-MS, LC-MS, ICP-MS), **Spectroscopy** (ICP-OES, FTIR, UV-Vis, AA), **Mass Spectrometry Imaging** (DESI, MALDI, SIMS), **Physical & Structural Properties of Molecules** (KF, LDA, XRD), **Thermal Analysis** (DSC, TGA) and all their related techniques.

1-day Introductory courses	Day	Price*	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Absolute Basics of GC & GC-MS	1	£250	31			24		29				9		
Absolute Basics of HPLC & LC-MS	1	£250	29					30					13	
Absolute Basics of ICP-OES & ICP-MS	1	£250	30						1					
Applied AAS	1	£250		11					2					
Absolute Basics of Deconvolution	1	£250	28						3					
Applied Method Validation	1	£405		10					6					
Absolute Basics of Chemometrics	1	£250		14					7					
Absolute Basics of Karl Fischer & Thermal Analysis	1	£250							8					
Absolute Basics of Laser Diffraction Analysis & Powder X-ray Diffraction	1	£250							9					
Absolute Basics of Mass Spectrometry Imaging	1	£250							10					

GC & GC-MS Manufacturer Specific Courses

Comprehensive GC or GC-MS Training with...	Day	Price*	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
...Agilent GC with OpenLAB CDS	4	£1,340						22-25					23-26	
Hardware / Software	2	£750						22-23/24-25					23-24/25-26	
...Shimadzu GCsolution	2	£750	20-21						13-14					
...Thermo Xcalibur	2	£750	16-17						16-17					
...Agilent SQMS with MassHunter	5	£1,520					18-22						2-6	
Hardware / Software	2-3	£750-£1060					18-19/20-22						2-3/4-6	
...Shimadzu GCMSsolution	2	£750				1-2							18-19	
...Agilent SQMS with MSD ChemStation	4	£1,340	21-24											
Hardware / Software	2	£750	21-22/23-24											
Advanced Hardware Training (Agilent GC & SQMS)	5	£1,990		10-14				8-12						
Other manufacturer specific courses														
Applied Deconvolution (NIST AMDIS)	2	£750						15-16					9-10	
GCxGC Software Training (Zoex GCImage)	2	£925						11-12						3-4

Please see inside and back for our full calendar of courses. The following courses are also available on-demand and/or onsite, contact us for details.

Comprehensive GC or GC-MS Training with...	Comprehensive GCxGC Software Training (Leco ChromaTOF)	Comprehensive LC or LC-MS Training with...	Applied Size Exclusion Chromatography (SEC)
Agilent GC with OpenLAB EZChrom or ChemStation	Comprehensive GCxGC Advanced Software Training (Zoex GCImage)	Agilent HPLC with ChemStation	Applied Anion Exchange Chromatography (AEC)
PerkinElmer GC with TotalChrom or TurboChrom	Splitters & Backflushing (Agilent CFT)	Shimadzu HPLC with LabSolutions	Applied Ion Chromatography (IC)
SRI GC with PeakSimple	Introduction to Heart-Cutting (Agilent Deans Switch)	Thermo HPLC with Xcalibur	Applied Extractables & Leachables (E&L)
Comprehensive GC Hardware Training (Shimadzu GC)	Hands-on Gas Supply & Plumbing Health Check	Waters HPLC with Empower	Applied Stability Indicating Methods (SIM)
Comprehensive GC Hardware Training (Thermo GC)	Applied Deconvolution (Markes TargetView)	Agilent LC-MS with MassHunter	Applied Size Exclusion Chromatography (SEC)
Comprehensive GC Software Training (Thermo Chromeleon)	Applied Deconvolution (Agilent DRS)	Comprehensive LC-MS Training with...	Comprehensive ICP-OES Training (see website)
Agilent QQMS with MassHunter	Applied Deconvolution (ACD/Labs MS Workbook Suite with IXCR)	Thermo IT with Xcalibur	Comprehensive ICP-MS Training (see website)
Leco Pegasus TOF with ChromaTOF	Applied OOS Results Investigation	Thermo QQMS with Xcalibur	Absolute Basics of Metabolomics
Markes BenchTOF with TOF-DS		Waters LC-MS with MassLynx	Comprehensive Data Analysis for Chemometrics or Metabolomics (Agilent MassHunter with GeneSpring Mass Profiler Professional)
Sciex/Bruker/Varian GC-MS with MSWorkstation		Sciex LC-MS with Analyst or SCIEX OS	

HPLC, LC-MS, Spectroscopy & ICP-MS Courses

HPLC & LC-MS classroom-based courses	Day	Price*	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Absolute Basics of HPLC & LC-MS	1	£250	29					30					13	
Complete HPLC & LC-MS	5	£1,120					11-15						16-20	
Practical Essentials of HPLC & LC-MS	3	£760					11-13						16-18	
Solvents, Pumps, Plumbing & Sample Introduction	1	£280					11						16	
Columns, Detectors & Mass Spectrometers	1	£280					12						17	
Sample Preparation, Calibration Standards, Sample Properties & Data Analysis	1	£280					13						18	
The HPLC & LC-MS Clinic	2	£530					14-15						19-20	
Method Development, Optimisation & Advanced Techniques	1	£280					14						19	
Troubleshooting & Maintenance	1	£280					15						20	
Applied Method Migration to UHPLC	1	£375					18						23	
Applied Interpretation of LC-MS Mass Spectra	3	£1,060			2-4							5-7		
Applied Method Validation	1	£405		10					6					
HPLC & LC-MS laboratory-based, hands-on courses														
Hands-on Complete HPLC & LC-MS	5	£2,200		24-28								28-2		
Hands-on Liquid-Liquid Extraction (LLE)	1	£499			11							16		
Hands-on Derivatisation	1	£499			12							17		
Hands-on Solid-Phase Extraction (SPE)	1	£499			13							18		
Hands-on Solid Phase Micro Extraction (SPME)	1	£499			16							21		
Spectroscopy & ICP-MS courses														
Absolute Basics of ICP-OES & ICP-MS	1	£250	30						1					
Applied AAS	1	£250		11					2					
Hands-on UV-Vis	1	£575		12							3			
Hands-on FTIR	1	£575		13							4			
Applied Method Validation	1	£405		10					6					

GC & GC-MS Generic Courses

Generic classroom-based courses	Day	Price*	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Absolute Basics of GC & GC-MS	1	£250	31			24		29				9		
Absolute Basics of Deconvolution	1	£250	28						3					
Complete GC & GC-MS	5	£1,120				27-1						12-16		
Practical Essentials of GC & GC-MS	3	£760				27-29						12-14		
The GC & GC-MS Clinic	2	£530				30-1						15-16		
Method Development & Advanced Techniques	1	£280				30						15		
GC & GC-MS Troubleshooting & Maintenance	1	£280					1					16		
Applied Interpretation of GC-MS Mass Spectra	3	£1,060						17-19					11-13	
Applied Method Validation	1	£375		10					6					
Generic laboratory based hands-on training courses														
Hands-on Complete GC & GC-MS	5	£1,870		3-7				1-5			7-11			
Hands-on Multi-Mode Inlets & PTVs	1	£499			9						14			
Hands-on Large Volume Injection (LVI)	1	£499			10						15			
Hands-on Liquid-Liquid Extraction (LLE)	1	£499			11						16			
Hands-on Derivatisation	1	£499			12						17			
Hands-on Solid-Phase Extraction (SPE)	1	£499			13						18			
Hands-on Solid Phase Micro Extraction (SPME)	1	£499			16						21			
Hands-on Headspace (HS)	1	£499			17						22			
Hands-on Purge-and-Trap (P&T)	1	£499			18						23			
Hands-on Thermal Desorption (TD)	1	£499			19						24			
Hands-on Pyrolysis (Py)	1	£499			20						25			
Hands-on GCxGC	2	£925						9-10						1-2