



## Virtual Classroom Training: Scheduled Course Calendar September - December 2021

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.

GC & GC-MS	Hours	Price*	Course Start Date			
			September	October	November	December
<b>Universal GC &amp; GC-MS courses</b>						
Absolute Basics of Deconvolution	6.5	£250	3			
Absolute Basics GC & GC-MS	6.5	£250	17			
Complete GC & GC-MS (Modules 1 - 12)	32	£1,120	29			
Practical Essentials of GC & GC-MS (Modules 1 - 8)	19.25	£760	29			
Module 1: Practical Essentials of Gas Chromatography and GC-MS Introduction	1	£50	29			
Module 2: Practical Essentials of Gases & Plumbing in GC & GC-MS	1.5	£75	29			
Module 3: Practical Essentials of Sample Introduction in GC & GC-MS	4	£200	29			
Module 4: Practical Essentials of GC Columns	2.5	£125	30			
Module 5: Practical Essentials of GC Detectors	1.5	£75	30			
Module 6: Practical Essentials of Mass Spectrometers in GC-MS	2.5	£125	30			
Module 7: Practical Essentials of Data Analysis for GC & GC-MS	2	£100		1		
Module 8: Practical Essentials of Sampling Techniques for GC & GC-MS	4.25	£212.50		1		
GC & GC-MS Clinic (Modules 9 - 12)	12.75	£530		7		
Module 9: Applied Method Development for GC & GC-MS	4.25	£212.50		7		
Module 10: An Introduction to Advanced Techniques in GC & GC-MS	2	£100		7		
Module 11: Applied GC & GC-MS Maintenance	3	£150		8		
Module 12: Applied Troubleshooting for GC & GC-MS	3.5	£150		8		
Practical Essentials of Advanced Injection for GC & GC-MS (Modules 1 - 2)	6.5	£300		15		
Module 1: Practical Essentials of Multi-Mode Inlets & PTVs	3.25	£162.50		15		
Module 2: Practical Essentials of Large Volume Injection (LVI)	3.25	£162.50		15		
Applied Interpretation of GC-MS Mass Spectra	20	£1,060			24	
<b>Manufacturer-specific GC &amp; GC-MS courses</b>						
Comprehensive GC Software (Agilent OpenLAB CDS)	13	£750	6			
Comprehensive GC-MS Software (Agilent MassHunter for SQMS)	19.5	£1,060		11		
Comprehensive GC-MS Software (Agilent MSD ChemStation)	13	£750			8	
Applied Deconvolution (NIST AMDIS)	13	£750			10	

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HPLC & LC-MS	Hours	Price*	Course Start Date			
			September	October	November	December
<b>Universal HPLC &amp; LC-MS courses</b>						
Applied Interpretation of LC-MS Mass Spectra	20	£1,060	20			
Applied Ion Chromatography (IC)	6.5	£405	27			
Absolute Basics of HPLC & LC-MS	6.5	£250	30			
Applied Anion Exchange Chromatography (AEC)	6.5	£405		4		
Applied Size Exclusion Chromatography (SEC)	6.5	£405		5		
Complete HPLC & LC-MS (Modules 1 - 12)	34	£1,120		18		
Practical Essentials of HPLC & LC-MS (Modules 1 - 8)	18	£760		18		
Module 1: Practical Essentials of Liquid Chromatography and LC-MS Introduction	1	£50		18		
Module 2: Practical Essentials of Mobile Phases & Pumps in HPLC & LC-MS	2.5	£125		18		
Module 3: Practical Essentials of Sample Introduction in HPLC & LC-MS	1	£50		18		
Module 4: Practical Essentials of LC Classification, Columns & Theory	3.5	£175		19		
Module 5: Practical Essentials of LC Detectors	1	£50		20		
Module 6: Practical Essentials of Data Analysis for HPLC & LC-MS	2	£100		20		
Module 7: Practical Essentials of Mass Spectrometers in LC-MS	4	£200		21		
Module 8: Practical Essentials of Sample Preparation, Calibration Standards and Sample Properties for HPLC & LC-MS	3	£150		22		
The HPLC & LC-MS Clinic (Modules 9 - 12)	16	£530			15	
Module 9: Applied Method Development & Optimisation for HPLC & LC-MS	6	£300			15	
Module 10: An Introduction to Advanced Techniques in HPLC & LC-MS	3	£150			16	
Module 11: Applied HPLC & LC-MS Maintenance	3	£150			16	
Module 12: Applied Troubleshooting for HPLC & LC-MS	3	£200			17	
Applied Method Migration from HPLC to UHPLC (UPLC)	6.5	£405			22	
<b>Manufacturer-specific HPLC &amp; LC-MS courses</b>						
Comprehensive LC-MS Software (Agilent MassHunter)	19.5	£1,060				6
<b>Spectroscopy</b>						
Applied Inductively-Coupled Plasma Optical Emission Spectroscopy (ICP-OES)	6.5	£405	13			
Applied Atomic Absorption Spectroscopy (AAS)	6.5	£405		4		
Absolute Basics of ICP-OES & ICP-MS	6.5	£250		7		
Applied FTIR	6.25	£405			29	
<b>Manufacturer-specific HPLC &amp; LC-MS courses</b>						
Comprehensive ICP-MS Software (Agilent MassHunter)	13	£750			29	
<b>Mass Spectrometry</b>						
Applied Interpretation of LC-MS Mass Spectra	20	£1,060	20			
Applied Interpretation of GC-MS Mass Spectra	20	£1,060			24	
Applied Inductively-Coupled Plasma Mass Spectrometry (ICP-MS)	6.5	£405	16			
Module 6: Absolute Basics of Mass Spectrometry Imaging (MSI)	6.5	£250			1	
<b>Manufacturer-specific Mass Spectrometry courses</b>						
Comprehensive GC-MS Software (Agilent MassHunter for SQMS)	19.5	£1,060		11		
Comprehensive GC-MS Software (Agilent MSD ChemStation)	13	£750			8	
Comprehensive ICP-MS Software (Agilent MassHunter)	13	£750			29	
Comprehensive LC-MS Software (Agilent MassHunter)	19.5	£1,060				6
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Sample Preparation	Hours	Price*	Course Start Date			
			September	October	November	December
<b>Practical Essentials of Sample Preparation</b> (Modules 1 - 8)	26	£975			22	
Module 1: Practical Essentials of Liquid-Liquid Extraction (LLE)	3.25	£162.50			22	
Module 2: Practical Essentials of Derivatisation	3.25	£162.50			23	
Module 3: Practical Essentials of Solid-Phase Extraction (SPE)	3.25	£162.50			23	
Module 4: Practical Essentials of Solid-Phase Micro-Extraction (SPME)	3.25	£162.50				2
Module 5: Practical Essentials of Headspace (HS)	3.25	£162.50				2
Module 6: Practical Essentials of Purge-and-Trap (P&T)	3.25	£162.50			24	
Module 7: Practical Essentials of Thermal Desorption (TD)	3.25	£162.50				3
Module 8: Practical Essentials of Pyrolysis (Py)	3.25	£162.50				3
<b>Physical &amp; Structural Properties of Molecules</b>						
<b>Absolute Basics of Physical &amp; Structural Properties of Molecules</b> (Modules 1 - 6)	19.5	£675		18		
Module 1: Absolute Basics of Karl Fischer (KF)	1.5	£75		18		
Module 2: Absolute Basics of Thermal Gravimetric Analysis (TGA)	1.5	£75		18		
Module 3: Absolute Basics of Differential Scanning Calorimetry (DSC)	3.5	£175		18		
Module 4: Absolute Basics of Laser Diffraction Analysis (LDA)	2	£100		19		
Module 5: Absolute Basics of Powder X-ray Diffraction (PXRD)	4.5	£225		19		
Module 6: Absolute Basics of Mass Spectrometry Imaging (MSI)	6.5	£250			1	
<b>Methods</b>						
Applied OOS Results Investigation	6.5	£405	20			
Applied Stability Indicating Methods (SIM)	6.5	£405		11		
Applied Extractables & Leachables (E&L) Methods	6.5	£405		12		
Applied Method Validation	6.5	£405			11	
<b>Statistical Analysis</b>						
Absolute Basics of Metabolomics	6.5	£250				6
Absolute Basics of Chemometrics	6.5	£250	27			
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Our live Virtual Classroom courses offer a fully interactive experience. Our Virtual Classroom has a clear layout in one view featuring an HD video feed of the trainer and interactive tools. There is an interactions area including virtual whiteboard for drawings and explanations.

Participants can ask live questions; either by using their microphone or by typing into the Q&A or chat boxes. Many of our courses feature instrument parts and consumables to see, or case studies to work on to apply the topics learned.



The instructor uses screenshare for software demonstrations and exercises and where applicable, delegates can also perform software exercises on their own PCs if they have the software available to them.

Our Virtual Classroom training courses are also available to access On-demand.

**Purchase On-demand Training**

