



## Virtual Classroom Training: Scheduled Course Calendar May - August 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			
			May	June	July	August
<b>Universal GC &amp; GC-MS courses</b>						
Absolute Basics of Deconvolution	6.5	£250	7			
Absolute Basics GC & GC-MS	6.5	£250	14			
Complete GC & GC-MS (Modules 1 - 12)	32	£1,120	21			
Practical Essentials of GC & GC-MS (Modules 1 - 8)	19.25	£760	21			
Module 1: Practical Essentials of Gas Chromatography and GC-MS Introduction	1	£50	21			
Module 2: Practical Essentials of Gases & Plumbing in GC & GC-MS	1.5	£75	21			
Module 3: Practical Essentials of Sample Introduction in GC & GC-MS	4	£200	21			
Module 4: Practical Essentials of GC Columns	2.5	£125	26			
Module 5: Practical Essentials of GC Detectors	1.5	£75	26			
Module 6: Practical Essentials of Mass Spectrometers in GC-MS	2.5	£125	26			
Module 7: Practical Essentials of Data Analysis for GC & GC-MS	2	£100	28			
Module 8: Practical Essentials of Sampling Techniques for GC & GC-MS	4.25	£212.50	28			
GC & GC-MS Clinic (Modules 9 - 12)	12.75	£530		9		
Module 9: Applied Method Development for GC & GC-MS	4.25	£212.50		9		
Module 10: An Introduction to Advanced Techniques in GC & GC-MS	2	£100		9		
Module 11: Applied GC & GC-MS Maintenance	3	£150		10		
Module 12: Applied Troubleshooting for GC & GC-MS	3.5	£150		10		
Practical Essentials of Advanced Injection for GC & GC-MS (Modules 1 - 2)	6.5	£300		18		
Module 1: Practical Essentials of Multi-Mode Inlets & PTVs	3.25	£162.50		18		
Module 2: Practical Essentials of Large Volume Injection (LVI)	3.25	£162.50		18		
Applied Interpretation of GC-MS Mass Spectra	20	£1,060			21	
<b>Manufacturer-specific GC &amp; GC-MS courses</b>						
Comprehensive GC Software (Agilent OpenLAB CDS)	13	£750	17			
Comprehensive GC-MS Software (Agilent MassHunter for SQMS)	19.5	£1,060		14		
Comprehensive GC-MS Software (Agilent MSD ChemStation)	13	£750			12	
Applied Deconvolution (NIST AMDIS)	13	£750			7	

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HPLC & LC-MS	Hours	Price*	Course Start Date			
			May	June	July	August
<b>Universal HPLC &amp; LC-MS courses</b>						
Applied Interpretation of LC-MS Mass Spectra	20	£1,060	10			
Applied Ion Chromatography (IC)	6.5	£405	24			
Absolute Basics of HPLC & LC-MS	6.5	£250	25			
Applied Anion Exchange Chromatography (AEC)	6.5	£405		7		
Applied Size Exclusion Chromatography (SEC)	6.5	£405		8		
Complete HPLC & LC-MS (Modules 1 - 12)	34	£1,120		21		
Practical Essentials of HPLC & LC-MS (Modules 1 - 8)	18	£760		21		
Module 1: Practical Essentials of Liquid Chromatography and LC-MS Introduction	1	£50		21		
Module 2: Practical Essentials of Mobile Phases & Pumps in HPLC & LC-MS	2.5	£125		21		
Module 3: Practical Essentials of Sample Introduction in HPLC & LC-MS	1	£50		21		
Module 4: Practical Essentials of LC Classification, Columns & Theory	3.5	£175		22		
Module 5: Practical Essentials of LC Detectors	1	£50		23		
Module 6: Practical Essentials of Data Analysis for HPLC & LC-MS	2	£100		23		
Module 7: Practical Essentials of Mass Spectrometers in LC-MS	4	£200		24		
Module 8: Practical Essentials of Sample Preparation, Calibration Standards and Sample Properties for HPLC & LC-MS	3	£150		25		
The HPLC & LC-MS Clinic (Modules 9 - 12)	16	£530			14	
Module 9: Applied Method Development & Optimisation for HPLC & LC-MS	6	£300			14	
Module 10: An Introduction to Advanced Techniques in HPLC & LC-MS	3	£150			15	
Module 11: Applied HPLC & LC-MS Maintenance	3	£150			19	
Module 12: Applied Troubleshooting for HPLC & LC-MS	3	£200			20	
Applied Method Migration from HPLC to UHPLC (UPLC)	6.5	£405			21	
<b>Manufacturer-specific HPLC &amp; LC-MS courses</b>						
Comprehensive LC-MS Software (Agilent MassHunter)	19.5	£1,060				16
<b>Spectroscopy</b>						
Applied Inductively-Coupled Plasma Optical Emission Spectroscopy (ICP-OES)	6.5	£405	10			
Applied Atomic Absorption Spectroscopy (AAS)	6.5	£405		7		
Absolute Basics of ICP-OES & ICP-MS	6.5	£250		9		
Applied FTIR	6.5	£405				12
<b>Manufacturer-specific HPLC &amp; LC-MS courses</b>						
Comprehensive ICP-MS Software (Agilent MassHunter)	13	£750		28		
<b>Mass Spectrometry</b>						
Applied Interpretation of LC-MS Mass Spectra	20	£1,060	10			
Applied Interpretation of GC-MS Mass Spectra	20	£1,060			21	
Applied Inductively-Coupled Plasma Mass Spectrometry (ICP-MS)	6.5	£405	11			
Module 6: Absolute Basics of Mass Spectrometry Imaging (MSI)	6.5	£250			5	
<b>Manufacturer-specific Mass Spectrometry courses</b>						
Comprehensive GC-MS Software (Agilent MassHunter for SQMS)	19.5	£1,060		14		
Comprehensive GC-MS Software (Agilent MSD ChemStation)	13	£750			12	
Comprehensive ICP-MS Software (Agilent MassHunter)	13	£750		28		
Comprehensive LC-MS Software (Agilent MassHunter)	19.5	£1,060				16

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Sample Preparation	Hours	Price*	Course Start Date			
			May	June	July	August
<b>Practical Essentials of Sample Preparation</b> (Modules 1 - 8)	26	£975			26	
Module 1: Practical Essentials of Liquid-Liquid Extraction (LLE)	3.25	£162.50			26	
Module 2: Practical Essentials of Derivatisation	3.25	£162.50			26	
Module 3: Practical Essentials of Solid-Phase Extraction (SPE)	3.25	£162.50			27	
Module 4: Practical Essentials of Solid-Phase Micro-Extraction (SPME)	3.25	£162.50				13
Module 5: Practical Essentials of Headspace (HS)	3.25	£162.50				13
Module 6: Practical Essentials of Purge-and-Trap (P&T)	3.25	£162.50			27	
Module 7: Practical Essentials of Thermal Desorption (TD)	3.25	£162.50				20
Module 8: Practical Essentials of Pyrolysis (Py)	3.25	£162.50				20
<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		21		
Module 1: Absolute Basics of Karl Fischer (KF)	1.5	£75		21		
Module 2: Absolute Basics of Thermal Gravimetric Analysis (TGA)	1.5	£75		21		
Module 3: Absolute Basics of Differential Scanning Calorimetry (DSC)	3.5	£175		21		
Module 4: Absolute Basics of Laser Diffraction Analysis (LDA)	2	£100		22		
Module 5: Absolute Basics of Powder X-ray Diffraction (PXRD)	4.5	£225		22		
Module 6: Absolute Basics of Mass Spectrometry Imaging (MSI)	6.5	£250			5	
<b>Methods</b>						
<b>Applied OOS Results Investigation</b>	6.5	£405	20			
<b>Applied Stability Indicating Methods (SIM)</b>	6.5	£405		14		
<b>Applied Extractables &amp; Leachables (E&amp;L) Methods</b>	6.5	£405		15		
<b>Applied Method Validation</b>	6.5	£405			5	
<b>Statistical Analysis</b>						
<b>Absolute Basics of Metabolomics</b>	6.5	£250	24			30
<b>Absolute Basics of Chemometrics</b>	6.5	£250		28		
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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**

