



AUPAM
THE ARAB EXPERTS' OFFICE

Arab Union of the Manufacturers of
Pharmaceuticals & Medical Appliances

aupameo.org

IN COLLABORATION WITH



ANTHIAS CONSULTING · UNITED KINGDOM



APPROVED TRAINING
FOR CPD PURPOSES

For the first time in the Arab world

3-DAY · FACE-TO-FACE

LC-MS TRAINING

Complete LC & LC-MS

Principles · Method Development · Maintenance
Optimisation · Troubleshooting

SAVE THE DATE

5-7 DECEMBER 2026

• **Amman, Jordan**

WHAT YOU WILL COVER

- 01 LC & LC-MS Fundamentals**
Mobile phases, columns, detectors & data
- 02 Applied Method Development**
LC/MS selection, optimisation & configuration
- 03 Maintenance & Troubleshooting**
System care and logical fault-finding

UNIVERSAL · APPLICABLE TO ALL INSTRUMENTATION



COURSE TRAINER

Dr Giles Edwards

MChem · PhD · FRSC



Approved by the Royal Society of Chemistry

for purposes of Continuing Professional Development (CPD)



SCAN TO REGISTER

Payment deadline

15 November 2026

AMMAN · 2026



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MEET YOUR TRAINER

Dr Giles Edwards

MChem • PhD • FRSC

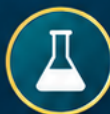
Mass spectrometry & liquid chromatography specialist

Dr Giles Edwards combines analytical research, instrument engineering and international training experience. His expertise covers LC-MS/MS method development, instrument optimisation, maintenance and systematic troubleshooting.



TRAINING & CONSULTANCY

- Trainer and Consultant, Anthias Consulting Ltd
- Authors and delivers analytical chemistry training, including LC and LC-MS/MS.



RESEARCH & INDUSTRY

- Director and Chief Scientific Officer, Artemis Analytical Ltd
- Research Associate, The University of Manchester
- Former Technical Support Specialist, Waters Corporation



GLOBAL TRAINING

- Founding Trustee and Technical Director, RORO
- Supports access to analytical instrumentation and delivers practical LC-MS/MS training internationally.



PhD, The University of Manchester • Fellow of the Royal Society of Chemistry



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EXPLORE THE COURSE

Complete LC & LC-MS

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DAY 1 · LC & LC-MS FUNDAMENTALS



- Introduction to liquid chromatography and LC-MS
- Mobile phases, buffers, pumps and isocratic / gradient elution
- LC classification, analytical columns and column care
- LC detectors, data analysis and qualitative analysis

DAY 2 · APPLIED METHOD DEVELOPMENT



- Quantitative analysis, vacuum systems and ionisation
- MS theory, calibration, mass analysers and ion detection
- Targeted / non-targeted analysis and sample preparation
- HPLC method development, column and mobile phase selection
- LC optimisation and configuration; MS method development

DAY 3 · OPTIMISATION, MAINTENANCE & TROUBLESHOOTING



- MS optimisation, method development case study and performance
- Spectral interpretation; HPLC-to-uHPLC method transfer
- Resolution, deconvolution and multidimensional LC
- HILIC, ion pairing, SEC, IC and advanced detection
- Advanced columns and MS; LC, MS and data system maintenance
- Logical troubleshooting of LC and LC-MS systems

Universal course · Applicable to all instrumentation



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