



Agilent Technologies

GC and GC-MS Training Courses

*“Very informative, practical
“hands-on” GC-MS work.
Excellent course materials.
Detailed to the right level.”*

Research Fellow attending Agilent
H4043A GC-MS Operator course

in association with

Anthias Consulting Ltd
Bridging the Gap

“Interactive, good to be able to use the software.”

Experimentalist attending Agilent H4043A GC-MS Operator course

R1778A GC Operator

This three-day course is designed to introduce the fundamental concepts of GC and the operation of the Agilent 6890 and 7890 Gas Chromatographs using capillary columns and GC Chemstation software. It combines a mixture of classroom based presentations with hands-on software and hardware lab exercises, to give you comprehensive training. This course includes an introduction to gas chromatography; Chemstation configuration; an introduction to Chemstation; data acquisition; data analysis; inlets; columns; detectors; calibration; sequences and reporting. For a full course outline please email courses@anthias.co.uk.

R1914A GC Troubleshooting & Maintenance

This two-day course is designed for those who have responsibility for the preventative maintenance of the Agilent 6890 and 7890 Gas Chromatographs. It combines a mixture of classroom based presentations with hands-on hardware and software lab exercises, to give you comprehensive training. This course includes an introduction to troubleshooting and maintenance; GC familiarisation; inlet, autosampler, column, detector, electronics and data system troubleshooting and maintenance. For a full course outline please email courses@anthias.co.uk.

H4043A GC-MS Operator

This three-day course is designed to complement the installation of the Agilent GC-MS, providing training on the operation of the Agilent 5973 and 5975 Mass Spectrometers and MSD Chemstation software. It combines a mixture of classroom based presentations with hands-on software and hardware lab exercises, to give you comprehensive training. This course

includes MS Basics and hardware configuration; MS tuning; data acquisition; qualitative & quantitative data analysis; custom reports & databases; sequencing; and an introduction to retention time locking, RPN commands and macros. For a full course outline please email courses@anthias.co.uk.

H2294A GC-MS Troubleshooting & Maintenance

The objective of this two-day course is to train the operator to perform the maintenance required to ensure the smooth running of the Agilent 6890-5973 and 7890-5975 GC-MS instruments. The course also discusses the principles of troubleshooting by examining the effects of faults in the system on the chromatographic output. It combines a mixture of classroom based presentations with hands-on hardware and software lab exercises, to give you comprehensive training. This course includes an introduction to troubleshooting and maintenance; tunes & diagnostics; GC considerations; MSD vacuum system; ion source; quadrupole mass filter; detector; and a final “bug” exam. For a full course outline please email courses@anthias.co.uk.

R1717A Deconvolution Reporting Software

This data analysis course will cover the fundamentals of the Deconvolution Reporting Software, G1716AA. DRS is an add-on application package to the Agilent GC-MSD Chemstation. Students will learn to use DRS interactively from Data Analysis and to optimize settings. Other topics covered include software installation; automation (sequence); compound addition to existing databases; AMDIS deconvolution and NIST Search. It combines a mixture of classroom based presentations with hands-on software lab exercises using laptop

computers, to give you comprehensive training. For a full course outline please email courses@anthias.co.uk.

H4063A Mass Spectral Interpretation

This three-day course is designed to present the fundamental concepts necessary to obtain high-quality data in SCAN mode from a GC-MS System for spectral interpretation purposes. The most commonly employed tools used in identifying compounds based on their mass spectra are introduced, the physical reasons for their efficiency explained, and their use reinforced through problem solving. The most common decomposition mechanisms responsible for fragment ions will also be introduced. This course is classroom based and combines a mixture of presentations to introduce the concepts with a high proportion of lab exercises to reinforce the knowledge. For a full course outline please email courses@anthias.co.uk.

R1791A CFT QuickSwap and Backflush

This one-day course mixes classroom and laboratory training and is designed for those who want to enhance their skills in the use of the Agilent QuickSwap system including the selection of columns, restrictors, system configuration and method optimization, plus develop backflushing skills.

R1790A CFT Splitters

This one-day course mixes classroom and laboratory training and is designed for those who want to enhance their skills in the use of both purged and non-purged Agilent Splitter systems including the selection of restrictors, system configuration and method optimization.

R1805A Retention Time Locking

This one-day course mixes classroom and laboratory training and is designed to provide an understanding of the principles of RTL, how useful it is for the Screener Database and DRS methods and then learn how to set-up & maintain RTL methods in the laboratory.

Venue:

Agilent Centre of Excellence in Comprehensive Chromatography based at The Open University, Milton Keynes. The center boasts a wide range of equipment from multiple manufacturers covering instrumentation in gas chromatography such as comprehensive multi-dimensional gas chromatography, PTV injectors, autosamplers, thermal desorbers and pyrolysers. Hardware and software training available with maximum of 8 delegates per course.

To book:

Online at www.anthias.co.uk, or email courses@anthias.co.uk for a booking form, or courses can be booked via Agilent Technologies UK Ltd.





"Good and pedagogical lecturer. I found it easy to understand the material."

Attendee of the Agilent H4063A Mass Spectral Interpretation course

"I enjoyed the course content. It was very detailed and taught me about different areas of Chemstation that I didn't know about."

Christine Kamukwanyama, Forensic Scientist at the National Forensic Science Institute in Namibia (attended Agilent GC Operator course in August 2012)

Terms & Conditions

1. All courses and material will be presented in native English language using high visual content, but the course assumes a reasonable understanding of English on every attendee's part.
2. All course attendees are requested to complete a pre-course questionnaire in order to ascertain their level of knowledge. Contact will be made by the course instructor in case of any concerns prior to the course.
3. All payment for courses must be received in advance of attendance of the course.
4. Anthias Consulting does not accept responsibility for flights or hotel bookings or their cancellation policies. Course attendees therefore book flights and hotels at their own risk.
5. Course cancellation will incur a penalty of a deductible amount per person: -50% up to 8 weeks before the course; -75% up to 4 weeks before the course; -100% up to 2 weeks before the course. Under exceptional circumstances, an alternative course may be offered without incurring any penalty.
6. A minimum of 5 attendees will be required for a course to proceed; a maximum of 8 analysts will be accommodated on any course at any one time. Anthias Consulting Ltd reserves the right to cancel a course with a full refund of course fees, or provision of an acceptable alternative course, due to under subscription or other unforeseeable circumstances without incurring any due penalty. Course attendees will be notified at least 2 weeks in advance by email of any changes to the course schedule for which they have registered. Anthias Consulting Ltd will not be liable for any costs incurred by airlines or hotels as a result of any changes, or any implication of assignments at work for which training is required.
7. Delegates and their companies are responsible for ensuring they have adequate travel permits and visas for course attendance, as well as adequate travel & medical insurance cover. Anthias Consulting cannot assist with any visa applications.
8. Delegates are not permitted to bring samples onto the courses, there most likely will not be an instrument available to analyse such samples. We advise delegates to bring in their existing chromatograms for discussion instead (where appropriate, according to the course), although Anthias Consulting can not promise to answer delegate's problems relating to their individual areas of work.

1 Hamden Way, Papworth Everard,
Cambridgeshire, CB23 3UG
E: courses@anthias.co.uk
T: +44 (0)1480 831262



Keep up with Anthias on
Twitter @anthiasconsult or
Skype: anthiasconsulting

For a full outline of all the
courses please email
courses@anthias.co.uk