Agilent

Trusted Answers

Agilent University Course Catalog

Australia, New Zealand, Malaysia, Singapore, South Korea, and Thailand

Agilent University Locations

Thailand

Training Center
Agilent Technologies
(Thailand) Ltd.
U Chu Liang Building 22/F Unit
A.D, 968 Rama IV Rd, Silom,
Bangrak, Bangkok 10500

Toll Free Number
Thailand (66) 2 6376363
Option 3 (Sales & Marketing)
Option 1 (Instrument & Service)

Singapore

Training Center
Agilent Technologies
Singapore (Sales) Pte Ltd
1 Yishun Avenue 7 Singapore
768923

Toll Free Number
Singapore 1800 276 2622
Option 3 (Sales & Marketing)
Option 1 (Instrument & Service)

Australia and New Zealand

Training Center
Agilent Technologies Australia
679 Springvale Road, Mulgrave,
Victoria 3170

Toll Free Number
Australia 1800 802 402
New Zealand 0508555344
Press 2 for Sales Enquiries
Press 3 for Service Sales

South Korea
서울 교육 센터
Agilent Technologies Korea Ltd.
한국애질런트테크놀로지스(주)
대한민국 서울특별시 서초구
강남대로 369
에이플러스에셋타워 9층, 06621

무료 전화:
대한민국 080 004 5090
옵션 3(영업 및 마케팅)

Malaysia

Training Center
Agilent Technologies Sales
(Malaysia) Sdn Bhd
Unit 201, Level 2, Uptown 2, 2
Jalan SS21/37 Damansara Uptown
47400 Petaling Jaya, Selangor

Toll Free Number
Malaysia 1800 88 0805
Option 3 (Sales & Marketing)
Option 1 (Instrument & Service)

A full list of Agilent University's global courses is available on our website

Online
Select from self-paced, on-demand or live instructor-lead online courses

In your lab
Have a customized class delivered in a lab on your site.

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Instructor-led classes at multiple locations.

Chat Now

Agilent University

We know the importance of well-trained lab personnel—not only for lab efficiency and productivity, but also for career success.

Agilent University provides you with flexible, cost-effective training options to help you reach your goals.

Whether you are a lab technician, chemist, scientist, or lab manager, continuous training will keep you and your lab running at peak performance.

Learn Your Way

Prefer hands-on learning?
Want the convenience of online training to quickly upskill?
Need a team trained on a new Agilent instrument in your lab?

We've got you covered.

At Agilent, we offer the following modes of training:

Classroom Training
Lectures and hands-on training using lab equipment at Agilent facilities. **More**

Self-paced e-learning
Self-paced, free or low cost, bite-sized courses you can do online from anywhere, at anytime. **More**

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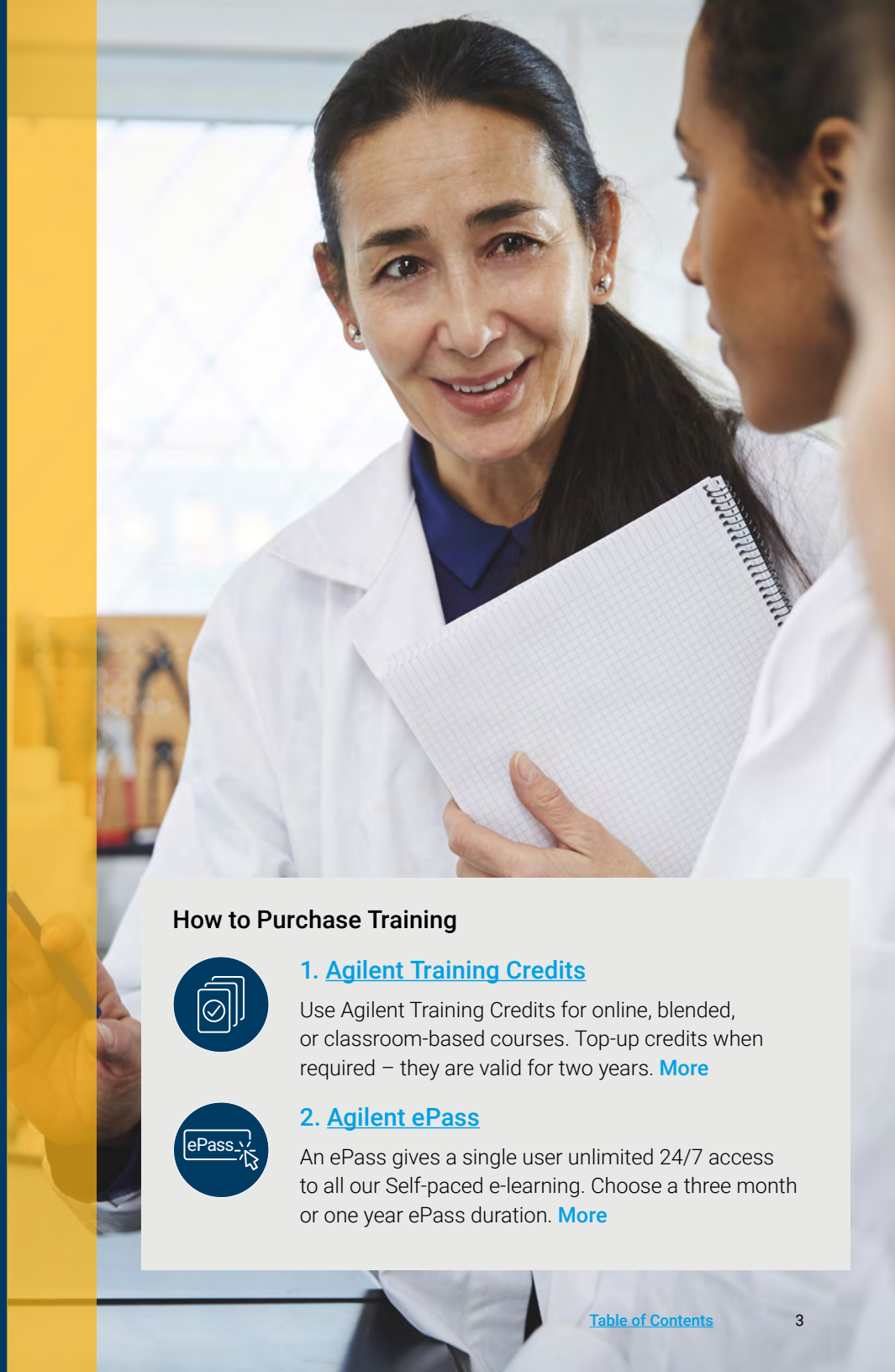
Live, online classes, presented by an experienced instructor. **More**

Blended Learning
Combine two or three training modes to get the learning outcomes you need in the formats that work best for you. **More**



How to Purchase Training

1. Agilent Training Credits

Use Agilent Training Credits for online, blended, or classroom-based courses. Top-up credits when required – they are valid for two years. More

2. Agilent ePass

An ePass gives a single user unlimited 24/7 access to all our Self-paced e-learning. Choose a three month or one year ePass duration. More

Additional Services and Training Options

Customized Training

Agilent can design a course specifically for your laboratory. A customized, onsite or remote course allows you to train your entire team together, without having to organize travel.

More

Method and Application Services

Agilent CrossLab Application Engineers partner with scientists and researchers at your site, or virtually, to consult on new or existing Agilent solutions. We manage the transfer of methods and data to your new platform and restore existing methods after each repair or maintenance visit, to maintain the performance and integrity of your workflow.

More

Agilent University Cloud Laboratory

Our Cloud Laboratory lets you practice your skills using a web browser, just as if you were using a live Agilent instrument.

This can dramatically improve your retention of key skills and concepts.

Learning Paths

We've mapped out the pathway for you to move from beginner to expert for each analytical technique. Each course is coded as 'beginner', 'intermediate', or 'advanced', where:

Beginner courses
Cover the fundamental concepts of the analytical technique and the basics of operating an instrument.

Intermediate courses
Cover more indepth aspects of the instrument software, creating methods, acquiring and analyzing data, customizing reports, maintenance, and troubleshooting.

Advanced courses
Cover advanced troubleshooting, sophisticated data analysis and the use of advanced software systems, and analytical method validation in accordance with regulatory standards.

Course Level	Recommended Experience
Beginner	Less than one year
Intermediate	One to three years
Advanced	Extensive (more than three years)

Table of Contents

To view specific course offerings, click your technique of interest.
Please note – Courses listed here may not be available in all countries.

Gas Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
GC-0GEN-2000c **GC-0GEN-2001c**	★ **Practical Gas Chromatography**	●	Theory, Hands-on	4 days 3 days	2000 1500
Instrument	Agilent 7890 GC				
Software	Agilent OpenLab CDS Chemstation				
Description	Master the various techniques of Gas Chromatography such as separation process, temperature programming, instrumentation, troubleshooting, quantification, method development and other general GC procedures.				
Who should attend	Agilent 7890 GC users who want to learn about the fundamental GC concepts. Recommended for MS users who are seeking more knowledge about Gas Chromatography.				
Pre-requisites	Some experience in running GC in the lab.				
GC-7890-2101c **GC-7890-2102c**	★ **Agilent 7890A/B GC and OpenLab ChemStation Operation**	●	Theory, Hands-on, Software	4 days 3 days	2000 1800
Instrument	Agilent 7890 GC				
Software	Agilent OpenLab CDS Chemstation				
Description	Learn about the fundamental concepts of GC and the operation of the Agilent 7890A or 7890B GC using capillary columns and OpenLab CDS ChemStation Edition software. At the end of this course, you will be able to configure your GC, perform acquisition, qualitative and quantitative analysis, produce reports and perform routine maintenance.				
Who should attend	New Agilent 7890 GC users who have responsibility for routine sample analysis.				
Pre-requisites	Basic understanding in Gas Chromatography and a minimum of 3 months experience with the 7890 GC system is recommended.				
GC-7890-2202c	★ **Agilent 7890A/B GC Maintenance & Troubleshooting**	●	Theory, Hands-on	2 days	1200
Instrument	Agilent 7890 GC				
Software	NA				
Description	Are you responsible for the preventive maintenance or first level repair of the Agilent 7890A/B GC and 7683/7693 ALS? Learn how to conduct preventive maintenance in just 2 days. This course covers both preventive maintenance for Split/Splitless inlets and FID.				
Who should attend	Agilent 7890 GC users with preventive maintenance responsibilities or instrument technicians with first level maintenance responsibilities.				
Pre-requisites	For a better learning experience, you are recommended to attend Practical Gas Chromatography course (GC-0GEN-2000c or GC-0GEN-2001c) or Agilent 7890A/B GC & OpenLAB Chemstation Operation (GC-7890-2101c or GC-7890-2102c) before attending this course.				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

Gas Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
GC-8890-2100c **GC-8890-2104c**	**Agilent 8890 GC Operation with OpenLab CDS ChemStation Edition**	● ● ●		4 days 3 days	2000 1500
Instrument	Agilent 8890 GC				
Software	Agilent OpenLab CDS Chemstation				
Description	Discuss gas chromatography theory of operation, design acquisition and data analysis methods, and create reports using OpenLAB CDS ChemStation Edition C.01.09. Learn how to identify primary maintenance tasks and complete hands-on GC lab assignments with the latest Agilent 8890 GC.				
Who should attend	Agilent 8890 GC and OpenLAB CDS ChemStation software users who are responsible for daily GC operation work.				
Pre-requisites	Basic understanding in Gas Chromatography, and a minimum of 3 months experience in running GC in the lab.				
GC-8890-2101c **GC-8890-2102c**	**Agilent 8890 GC Operation with OpenLab CDS 2.X**	● ● ●		4 days 3 days	2000 1500
Instrument	Agilent 8890 GC				
Software	Agilent OpenLab CDS				
Description	Discuss gas chromatography theory of operation, design acquisition and data analysis methods, and create reports using OpenLab CDS Software. Learn how to identify primary maintenance tasks and complete hands-on GC lab assignments with the latest Agilent 8890 GC.				
Who should attend	Agilent 8890 GC users who want to improve your efficiency with Agilent's innovative gas chromatography systems. Learn how to use the tools in OpenLab CDS software to save time in the analysis, interpretation, and reporting workflows so you can identify essential information and solve problems faster.				
Pre-requisites	Basic understanding in Gas Chromatography, and a minimum of 3 months in running GC in the lab.				
GC-8890-2200c **GC-8890-2202c** **GC-8890-2201c**	★ **Agilent 8890 GC Maintenance and Troubleshooting**	● ● ●		4 days 3 days 2 days	2400 1800 1200
Instrument	Agilent 8890 GC				
Software	NA				
Description	Designed for those who have the responsibility for the preventive maintenance and first level repair of the Agilent 8890 GC and 7693 ALS. The course covers preventive maintenance for Split/Splitless inlets and FID.				
Who should attend	Agilent 8890 GC users with preventive maintenance responsibilities or instrument technicians with first level maintenance responsibilities for the Agilent 8890 GC.				
Pre-requisites	For a better learning experience, you are recommended to attend Practical Gas Chromatography course (GC-0GEN-2000c or GC-0GEN-2001c) or Agilent 8890 GC OpenLAB Chemstation Operation (GC-8890-2100c or GC-8890-2104c) before attending this course.				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

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Gas Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
GC-8890-2206c	**Agilent 8890 GC Routine Maintenance**	● ● ●		1 day	600
Instrument	Agilent 8890 GC				
Software	NA				
Description	Are you responsible for maintaining or repairing the Agilent 8890 GC? This one-day lecture-only course is designed for those who are responsible for preventive maintenance and first level repair of the Agilent 8890 GC and 7693 ALS.				
Who should attend	Agilent 8890 GC users who would like to get introduced to the principles of troubleshooting and maintenance.				
Pre-requisites	For a better learning experience, you are recommended to attend Practical Gas Chromatography course(GC-0GEN-2000c or GC-0GEN-2001c) before attending this course.				
GC-9000-2101c	**Agilent 7890/9000 GC with OpenLab 2.X Essential and Advanced Operation**	● ● ●		4 days	2200
Instrument	Agilent 7890 or Intuvo 9000 GC				
Software	Agilent OpenLab CDS				
Description	Designed for GC users who aspire to master the essential and advanced features of the Agilent 7890/9000 GC and OpenLAB 2.X, this comprehensive 4 days course will teach you how to run samples and sequences, review data, set up methods that include calibration, and perform routine maintenance.				
Who should attend	Agilent GC users who would like to learn both essential and advanced features to run samples and sequences, review data, set up methods that include calibration, and perform routine maintenance on their Agilent 7890 or 9000 GC with OpenLAB CDS Version 2.1.				
Pre-requisites	Basic understanding in Gas Chromatography or minimum 3 months experience with the operation of the Agilent 7890 or 9000.				
GC-OLCS-2100c	**Agilent 7890 GC OpenLab CDS ChemStation Data Analysis and Reporting**	● ● ●		3 days	1800
Instrument	Agilent 7890 GC				
Software	Agilent OpenLab CDS Chemstation				
Description	Learn how to operate the Agilent 7890 GC with OpenLab CDS ChemStation Edition software through instructor explanations, extensive hands-on, and laboratory exercises. The primary focus of the course is data analysis and reporting. If you require instruction in the fundamental concepts of Gas Chromatography and the operation of the instrument, please refer to Practical Gas Chromatgraphy (GC-0GEN-2000c or GC-0GEN-2001c) or Agilent 7890A/B GC & OpenLAB Chemstation Operation Course (GC-7890-2101c, GC-7890-2102c).				
Who should attend	Routine Agilent GC users who need to know more about the use of the OpenLab CDS ChemStation Edition software.				
Pre-requisites	For a better learning experience, you are recommended to attend Practical Gas Chromatography course (GC-0GEN-2000c or GC-0GEN-2001c) before attending this course.				

Legend Theory Hands-on Software **Course Level** Beginner Intermediate Advanced ★ Most popular

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Gas Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
SI-7697A-2100c	**Agilent 7697A Headspace Operation**	● ● ●	Theory, Hands-on, Software	2 days	1000
Instrument	Agilent 7697A Headspace Sampler				
Software	Agilent OpenLab CDS Chemstation				
Description	Operate your Agilent 7697A Headspace Sampler with ease and learn how to keep your system at optimal condition at all times. In this course, you will learn how to construct new methods with or without OpenLab CDS Chemstation Edition, test and optimize parameters with method development tools and obtain robust methods.				
Who should attend	GC 7697 Headspace users with experience in operating GC and chromatography data system.				
Pre-requisites	Basic understanding in Gas Chromatography. For better learning experience, you are recommended to attend Practical Gas Chromatography course (GC-0GEN-2000c or GC-0GEN-2001c) before attending this course.				
GC-OLCS-2102c	**Agilent GC OpenLab CDS ChemStation Software Training**	● ● ●	Software	3 days	1800
Instrument	All Agilent Gas Chromatography				
Software	Agilent OpenLab ChemStation				
Description	Reduce data analysis time and increase instrument operation time using the Agilent 8890 gas chromatograph (GC) and OpenLab ChemStation Edition software. Learn how to construct a method to acquire both single and automated sequence data. Optimize and automate data processing, and produce reports that are customized for your unique data				
Who should attend	Routine GC operators who need to know more about the use of the use of Agilent OpenLab ChemStation software				
Pre-requisites	A basic gas chromatography course such as Practical Gas Chromatography, GC-0GEN-2000c, and one-month experience with the Agilent GC system is recommended.				
GC-OLII-2101c	**Agilent GC OpenLab CDS 2.x Software Training**	● ● ●	Theory, Hands-on, Software	3 days	1800
Instrument	Agilent 7890, 8890 GC				
Software	Agilent OpenLab CDS				
Description	Designed for GC users who aspire to master the skill in constructing a method to acquire both single sample and automated sequence data, optimize and automate data processing and produce reports that are customized for your unique data.				
Who should attend	Agilent GC users who would like to learn software features to run samples and sequences, review data, set up methods that include calibration, and perform routine maintenance on their Agilent 7890 or 8890 GC with OpenLAB CDS software.				
Pre-requisites	Basic understanding in Gas Chromatography or minimum 3 months experience with the operation of the Agilent 7890 or 8890 GC.				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

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Gas Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
GC-0GEN-3001c	**Agilent GC Method Development**	● ● ●		2 days	1600
Instrument	All Agilent Gas Chromatography				
Software	NA				
Description	Prepare your instrument for successful method development. Acquaint yourself with the separation techniques, column types and applications in GC method development. Optimize a reversed-phase separation using principles learned in this course. Apply your knowledge to any manufacture of GC instrument.				
Who should attend	A GC user of Gas chromatography who has responsibility for developing new methods.				
Pre-requisites	A basic gas chromatography hardware course such as GC Maintenance & Troubleshooting, and three-month experience with the Agilent 7890 or 8890 GC system is recommended.				
SI-HS-2100c	**Agilent Headspace Sampler Operation and Maintenance**	● ● ●		2 days	1000
Instrument	Agilent 7697A Headspace Sampler or Agilent 8697 Headspace Sampler				
Software	OpenLab CDS Software				
Description	Learn how to operate and maintain the Agilent 7697A or 8697 headspace samplers using Agilent OpenLab CDS software and the headspace built-in diagnostic tests.				
Who should attend	Routine Agilent Headspace Sampler users who is responsible for performing and developing headspace analysis and instrument maintenance and troubleshooting.				
Pre-requisites	Experience with gas chromatography and chromatography data systems and familiarity with the Agilent 7697A or 8697 Headspace Sampler. A Fundamentals of GC course is recommended, such as GC-0GEN-2000c.				
GC-9000-1101c	**Agilent Intuvo 9000 GC Basic Operation and Maintenance**	● ● ●		1 days	500
Instrument	Agilent Intuvo 9000 GC				
Software	OpenLab CDS Chemstation, OpenLab CDS 2.x, MassHunter				
Description	This 1-day course is designed to help Intuvo GC operators set up and operate their Intuvo and keep it running by being able to perform basic maintenance tasks. This course focuses on how to set the Intuvo method parameters and does not include setting up a sequence or data processing.				
Who should attend	Agilent Intuvo 9000 GC user who would like to learn how to use and maintain the Intuvo GC.				
Pre-requisites	The user should be familiar with running GC sequence and process data.				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

Liquid Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
HPLC-0GEN-1001c	**Laboratory Skills for HPLC Operators**	●	Theory, Hands-on	2 days	1000
Instrument	Agilent 1220, 1260, 1290 Infinity I and II LC systems				
Software	NA				
Description	New Agilent HPLC users can now learn the fundamentals behind high-performance liquid chromatography. In this course, you are given a chance to learn and practice necessary laboratory skills such as using a balance, micropipetter, and pH meter.				
Who should attend	New laboratory personnel who need to perform routine HPLC work.				
Pre-requisites	None				
HPLC-0GEN-2000c **HPLC-0GEN-2001c**	**Techniques of HPLC**	●	Theory, Hands-on	4 days 3 days	2400 1800
Instrument	Agilent 1220, 1260, 1290 Infinity I and II LC systems				
Software	NA				
Description	Improve your proficiency as a new HPLC user by learning how to prepare your instrument for the successful acquisition and familiarize yourself with HPLC techniques, column types and applications. At the end of the course, you will be able to interpret and troubleshoot chromatograms, evaluate the performance of your system and perform basic troubleshooting.				
Who should attend	New Agilent HPLC users who have responsibility for routine sample analysis and may have responsibility for developing new methods.				
Pre-requisites	None				
HPLC-0GEN-3091c	★ **Chromatographic Analytical Method Development**	●	Theory, Hands-on, Software	2 days	1200
Instrument	Any HPLC				
Software	NA				
Description	Be guided through a step-by-step approach to all the crucial aspects of method development. Topics include information gathering, mode of chromatography, development of mobile phase systems, column choice, principles of ionisation/suppression, optimisation of important chromatographic parameters (R, α, k' and N), isocratic and gradient operation and detector choice and optimisation.				
Who should attend	Any experienced HPLC users who need to develop and optimize a new method for HPLC analysis.				
Pre-requisites	For a better learning experience, you are recommended to attend Techniques of HPLC course (HPLC-0GEN-2000c or HPLC-0GEN-2001c).				

Legend Theory, Hands-on, Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

Liquid Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
HPLC-INF-2100c **HPLC-INF-2101c**	★ **Agilent Infinity LC Series OpenLab CDS ChemStation (3D)**	● ● ●		4 days 3 days	2000 1500
Instrument	Agilent 1220, 1260, 1290 Infinity I and II LC systems				
Software	Agilent OpenLab CDS ChemStation				
Description	Enhance your skills in the techniques and software operation of the Agilent 1220, 1260 or 1290 Infinity Series HPLC (3D) ChemStation in this 4 days course. You will learn how to create qualitative and quantitative methods, sequencing, diode array optimization, and hardware maintenance.				
Who should attend	Agilent HPLC users who want to learn how to operate, maintain and troubleshoot the Agilent Infinity Series HPLC with Agilent OpenLab CDS ChemStation Edition.				
Pre-requisites	A minimum of 3 months experience on HPLC is required.				
HPLC-INF-2105c	**Agilent Infinity Series HPLC ChemStation Operation**	● ● ●		2 days	1200
Instrument	Agilent 1260 Infinity I and II LC systems				
Software	Agilent OpenLab CDS ChemStation				
Description	Geared towards analysts performing an advanced operation of the Agilent Infinity Series HPLC and the OpenLab CDS ChemStation Edition software, this course will cover data acquisition and analysis as well as System Management. OpenLab CDS ChemStation Edition C.01.XX will be used.				
Who should attend	Agilent HPLC users who want to learn how to operate the Agilent Infinity Series HPLC with Agilent OpenLAB CDS ChemStation Edition				
Pre-requisites	A minimum of 3 months experience on HPLC is required.				
HPLC-INF-2202c **HPLC-INF-2200c**	★ **Agilent Infinity Series HPLC Maintenance and Troubleshooting**	● ● ●		3 days 2 days	1800 1200
Instrument	Agilent 1220, 1260, 1290 Infinity I and II LC systems				
Software	Agilent Lab Advisor				
Description	Learn how to maintain your Agilent 1220, 1260 or 1290 Infinity Series I or II HPLC modules optimally. This 2 days course utilizes a lecture format with instrument laboratories. Topics include diagnostic features and solvent delivery system, autosampler, thermostatted column compartment and UV-Vis detector maintenance. LabAdvisor and ChemStation software will be used.				
Who should attend	Agilent HPLC users who have responsibility for operation and maintenance of the Agilent Infinity Series HPLC for routine and non-routine samples. A fundamental understanding of high-performance liquid chromatography is expected.				
Pre-requisites	For a better learning experience, you are recommended to attend Techniques of HPLC course (HPLC-0GEN-2000c or HPLC-0GEN-2001c) or Agilent Inifinity Series HPLC (3D) ChemStation C Operation course HPLC-INF-2100c.				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

Liquid Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
HPLC-INFII-2101c	★ **Agilent Infinity Series HPLC with OpenLab 2.X Essential and Advanced Operation**	●	Theory, Hands-on, Software	4 days	2200
Instrument	Agilent 1220, 1260, 1290 Infinity I and II LC systems				
Software	Agilent OpenLab CDS				
Description	Designed for users who desire to master both essential and advanced features of the Agilent Infinity Series HPLC and OpenLAB CDS software, this course will teach you how to run samples and sequences, review data, set up methods that include calibration, and perform routine maintenance on your Agilent Infinity Series HPLC.				
Who should attend	Agilent HPLC users who will run routine samples and implementing acquisition and processing methods on OpenLab CDS software and the Infinity Series HPLC.				
Pre-requisites	A minimum of 3 months experience on HPLC is required.				
HPLC-INFII-2100c	**Agilent Infinity Series HPLC with OpenLAB 2.x Advanced Operation**	●	Theory, Hands-on, Software	2 days	1200
Instrument	Agilent 1220, 1260, 1290 Infinity I and II LC systems				
Software	Agilent OpenLab CDS				
Description	Develop OpenLab CDS methods with ease while using advanced features and learn how to perform maintenance on your Agilent Infinity Series HPLC with OpenLab CDS.				
Who should attend	Agilent HPLC users who will be responsible for implementing acquisition and processing methods on OpenLAB CDS software and the Infinity Series HPLC.				
Pre-requisites	For a better learning experience, you are recommended to attend Techniques of HPLC course (HPLC-0GEN-2000c or HPLC-0GEN-2001c) or Agilent Infinity Series HPLC with OpenLAB 2.X Essential and Advanced Operation course (HPLC-INFII-2101c).				
HPLC-MULTI-3130c	**Diode Array 3D Detector Hardware and Spectra Analysis with ChemStation Software**	●	Theory, Software	1 day	800
Instrument	Agilent 1220, 1260, 1290 Infinity I and II LC systems				
Software	Agilent OpenLab CDS Chemstation				
Description	Learn how to fully maximize your DAD to achieve reliable data and software to perform peak purity tests. You can now be sure of obtaining trustable sample analysis results and improve your operational efficiency.				
Who should attend	Agilent HPLC users who have a desire to improve their understanding and efficiency in using the Diode Array 3D Detector and Spectral Analysis using OpenLab CDS Chemstation Software.				
Pre-requisites	For a better learning experience, you are recommended to attend Techniques of HPLC course (HPLC-0GEN-2000c or HPLC-0GEN-2001c) or Agilent Inifinity Series HPLC (3D) ChemStation Operation course (HPLC-INF-2105c).				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

Liquid Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
HPLC-OLCS-2105c	**Agilent Infinity LC Series OpenLab CDS ChemStation (3D)**	● ● ●		3 days	1800
Instrument	Agilent 1220, 1260, 1290 Infinity I and II LC systems				
Software	Agilent OpenLab CDS				
Description	This course is designed for students that have already experience with the HPLC hardware, or that are not involved with the operation of the hardware.				
Who should attend	Agilent HPLC user who is responsible for operation of the Agilent Technologies Infinity Series HPLC for routine and non-routine samples. A fundamental understanding of high performance liquid chromatography is expected.				
Pre-requisites	A minimum of 1 month experience on HPLC is required. A basic liquid chromatography course such as Techniques of HPLC (HPLC-0GEN-2000c/2001c) is recommended.				
HPLC-OLII-2101c	**Agilent Infinity Series HPLC with OpenLAB 2.X Essential and Advanced Operation**	● ● ●		3 days	1800
Instrument	Agilent Infinity I and II HPLC systems				
Software	Agilent OpenLab CDS Chemstation				
Description	Switch to Agilent OpenLab CDS software effortlessly. In this course, you will learn how to run samples & sequences, review data, set up methods and build calibration tables.				
Who should attend	New users who have minimal experience handling Agilent HPLC, or are new to HPLC or OpenLab CDS				
Pre-requisites	Basic laboratory and computer skills is recommended				
HPLC-0GEN-3090c	**Reversed Phase Chromatography Method Development**	● ● ●		2 day	1600
Instrument	High Performance Liquid Chromatography System				
Software	Agilent OpenLab CDS, Agilent OpenLab CDS Chemstation				
Description	Prepare your instrument for successful method development. Acquaint yourself with the separation techniques, column types and applications in HPLC method development. Optimize a reversed-phase separation using principles learned in this course. Apply your knowledge to any manufacture of HPLC instrument.				
Who should attend	A HPLC user of liquid chromatography who has responsibility for developing new methods.				
Pre-requisites	A basic liquid chromatography hardware course such as LC Maintenance & Troubleshooting, and three-month experience with the Agilent Infinity I and II HPLC system is recommended.				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

GC/MS Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
GCMS-0GEN-2000c	**Techniques of GC/MS**	● ● ●	Theory	3 days	1500
Instrument	Any GCMS				
Software	NA				
Description	Master the basic techniques necessary to perform qualitative and quantitative analysis using single quadrupole, triple quadrupole, and Q-TOF GC/MS systems. This is a lecture-only course which emphasizes student participation through extensive class exercises focused on the complete analysis of an unknown sample.				
Who should attend	Any GCMS user who wants to learn about basic Mass Spectrometer; has experience with GC theory and practice but new to the use of a Mass Spectrometer as a GC detector.				
Pre-requisites	Attended Practical Gas Chromatography Course (GC-0GEN-2000c or GC-0GEN-2001c).				
GCMS-0GEN-3062c	**GCMS (SQ) Interpretation**	● ● ●	Theory	2 days	1600
Instrument	Any GCMS				
Software	NA				
Description	Interpret Mass Spectrum with ease with this 2 days interpretation course. Topics include the site of ionization, ionization mechanism, fragmentation mechanism, logic loss, how to optimize SCAN parameter and set up a method for MSMS technique.				
Who should attend	Any GCMS user who focuses on qualitative analysis, and a MSMS user who needs to understand how to select MRM ion.				
Pre-requisites	Basic Chemistry knowledge is required, a minimum of 6 months experience on Mass Selective Detector is an advantage.				
GCMS-5977-2100c	★ **Agilent 5977 GC/MS Techniques and Operations with MassHunter Data Analysis**	● ● ●	Theory, Hands-on, Software	4 days	2400
Instrument	Agilent 5977A/B/HES MSD with Agilent 7890, 8890, 8860 or Intuvo 9000 GC				
Software	Agilent MassHunter Acquisition; MassHunter Qualitative Analysis; MassHunter Quantitative Analysis				
Description	Gain insights into the operations of the Agilent 5977 GC/MS system and learn how to apply relevant knowledge to end-to-end operations. You will also learn how to use MassHunter Data Analysis applications to process sample data effectively and perform essential maintenance and troubleshooting for the Agilent 5977 GC/MSD System.				
Who should attend	GCMS users who will maintain and troubleshoot the Agilent 7890B, 8890, 8860 or Intuvo 9000 GC with Agilent 5977 GC/MSD with MassHunter Acquisition and Data Analysis software.				
Pre-requisites	A minimum of 1 month experience on Agilent GCMS system.				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

GC/MS Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
GCMS-5977-2103c	**Agilent 5977 GC/MS Techniques and Operation with ChemStation Data Analysis**	●	Theory, Hands-on, Software	4 days	2400
Instrument	Agilent 5977A/B/HES MSD with Agilent 7890, 8890, 8860 or Intuvo 9000 GC				
Software	Agilent MassHunter Acquisition; Chemstation Data Analysis				
Description	Learn how to operate the Agilent 5975 or 5977 GC/MS with MassHunter Acquisition and ChemStation Data Analysis software. Topics include Scan and SIM acquisition and tuning using MassHunter Data Acquisition. ChemStation Data Analysis will be utilized for library searching, quantitative data analysis and reporting.				
Who should attend	GCMS users who will operate, maintain and troubleshoot the Agilent 7890B, 8890, 8860 or Intuvo 9000 GC with Agilent 5977 or 5975 MSD with MassHunter Acquisition and ChemStation Data Analysis software.				
Pre-requisites	A minimum of 1 month experience on Agilent GCMS system.				
GCMS-5977-2109c	**Agilent 5977 GC/MS Techniques and Operation with OpenLab CDS**	●	Theory, Hands-on, Software	4 days	2800
Instrument	Agilent 5977A/B/HES MSD with Agilent 7890, 8890, 8860 or Intuvo 9000 GC				
Software	Agilent OpenLab CDS software				
Description	Gain insight into the overall operation of the Agilent 5977 GC/MS system. Apply this knowledge to ensure your instrument is tuned and your methods are optimized. Use OpenLab CDS applications to efficiently and effectively generate, review and report sample data.				
Who should attend	GCMS users who will operate, maintain and troubleshoot the Agilent 5977 GC/MSD with OpenLab CDS software.				
Pre-requisites	A minimum of 3 months experience on GCMS system.				
GCMS-5977-2200c **GCMS-5977-2202c**	★ **Agilent 5977 GC/MS Maintenance and Troubleshooting**	●	Theory, Hands-on	3 days 2 days	1800 1200
Instrument	Agilent 5977A/B/HES MSD with Agilent 7890, 8890 or Intuvo 9000 GC				
Software	Agilent MassHunter Acquisition				
Description	Gain competency in performing maintenance and troubleshooting on the Agilent 5977 GC/MSD. Topics include diagnostics and tools, routine GC, vacuum system, ion source, quadrupole and detector maintenance and troubleshooting procedures.				
Who should attend	GCMS users who will maintain and troubleshoot 7890B or 8890 with 5977 GC/MS.				
Pre-requisites	Attended GCMS Operation Course (GCMS-5977-2100c) or a minimum of 6 months experience on GCMS system.				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

GC/MS Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
GCMS-5977-2201c	**Agilent 5977 GC/MS Maintenance and Troubleshooting**	● ● ●	Theory	1 day	600
Instrument	Agilent 5977A/B/HES MSD with Agilent 7890, 8890, 8860 or Intuvo 9000 GC				
Software	NA				
Description	Understand the recommended maintenance for all Agilent 5977 GC/MS system componenets, and capable to describe the steps to logical troubleshooting. This course is a 1-day lecture only version of the popular Agilent 5977 Maintenance and Troubleshooting course.				
Who should attend	GCMS users who will maintain and troubleshoot 7890B or 8890 with 5977 GC/MS.				
Pre-requisites	Attended GCMS Operation Course (GCMS-5977-2100c) or a minimum of 6 months experience on GCMS system.				
GCMS-5977-2300c	**Agilent 5975/5977 GC/MS and MassHunter Enviroquant Operation**	● ● ●	Theory, Hands-on, Software	3 days	3200
Instrument	Agilent 5975/5977A/B/HES MSD with Agilent 7890, 8890 or Intuvo 9000 GC				
Software	Agilent MassHunter Acquisition; MassHunter Qualitative Analysis; MassHunter Quantitative Analysis				
Description	Learn how to use MassHunter Enviroquant to acquire and process environmental data. Topics include setting up acquisition methods in MassHunter and performing runs and sequences (automated analysis), BFB and DFTPP tuning and tuning evaluation, creating batches for quantification, applying existing quantitation methods to a batch of samples, building a quantitative method, reviewing quantitative results, using continuing calibration in MassHunter Quantitative Analysis as it relates to environmental analysis, Enviroquant reporting, unknowns analysis.				
Who should attend	GCMS users who are responsible for routine environmental sample analysis and will use Enviroquant Software for environmental sample analysis.				
Pre-requisites	Must have attended the following online learning courses: 1. GCMS-5977-1200sV2 - GC/MS Single Quadrupole Instrument Essentials 2. GCMS-0GEN-2120e - Optimizing Your GC/MS Scan Acquisition Parameters 3. GCMS-0GEN-2121e - Optimizing Your GC/MS Selected Ion Monitoring (SIM) Parameters 4. GCMS-5977-2300eV2 - Agilent 5975/5977 EnviroQuant – Communication and Software Configuration Overview				
GCMS-7000-2100c	★ **Agilent 7000/7010 Series Triple Quadrupole Techniques and Operation**	● ● ●	Theory, Hands-on, Software	4 days	3200
Instrument	Agilent 7000/7010 GCMS QQQ with Agilent 7890, 8890, or Intuvo 9000				
Software	Agilent MassHunter Acquisition; MassHunter Qualitative Analysis; MassHunter Quantitative Analysis				
Description	Gain insights into the operations of the Agilent 7000/7010 Triple Quadrupole GC/MS system and learn how to apply the relevant knowledge to perform end-to-end operations. You will also learn how to use MassHunter Data Analysis applications effectively to process sample data and perform essential maintenance and troubleshooting for the Agilent 7000/7010 Triple Quadrupole GC/MS system.				
Who should attend	Agilent 7000 or 7010 QQQ GC/MS users who have responsibility for routine sample analysis.				
Pre-requisites	A minimum of 1 month experience using the GC/MS QQQ and basic mass spectrometry and Gas Chromatography experience. If you have no GC or MS experience, please take the Practical GC (GC-0GEN-2000C) and GCMS Operation course (GCMS-5977-2100c) before attending this course.				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

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GC/MS Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
GCMS-7000-2301c	**Agilent Triple Quadrupole GC/MS Pesticide Analyzer Operation**	●	Theory, Software	3 days	2400
Instrument	Agilent 7000 or 7010 QQQ GC/MS				
Software	Agilent MassHunter Acquisition; MassHunter Qualitative Analysis; MassHunter Quantitative Analysis				
Description	This 3 day, hands-on course will give analysts the experience to develop MRM methods and use the Pesticide Analyzer database the Agilent Triple Quadrupole GC/MS. The topics include a complete look at data acquisition and scan types, MassHunter Qualitative and Quantitative Analysis software packages, reporting and routine maintenance of the instrument.				
Who should attend	The student attending this class is responsible for QQQ method development using the Pesticide Analyzer. Persons responsible for GC/MS/MS data analysis should also attend.				
Pre-requisites	A minimum of 1 month experience using the GC QQQ and basic mass spectrometry and Gas Chromatography experience.				
GCMS-MH-2101c **GCMS-MH-2100c**	★ **Masshunter GC/MS Data Analysis and Reporting**	●	Theory, Software	3 days 2 days	1800 1200
Instrument	Agilent 5977A/B/HES MSD or Agilent 7000/7010 GCMS QQQ with Agilent 7890, 8890 or Intuvo 9000 GC				
Software	Agilent MassHunter Acquisition; MassHunter Qualitative Analysis; MassHunter Quantitative Analysis				
Description	Learn how to use MassHunter Qualitative Analysis, Quantitative Analysis, and Reporting for GC Single Quadrupoles and GC Triple Quadrupoles application.				
Who should attend	GCMS users who already have a significant background in GCMS, but need to learn about the MassHunter Data Analysis software.				
Pre-requisites	Minimum of 1 year Mass Spectrometry experience. Students are expected to know the fundamentals of their particular instrument configuration (GC Single Quadrupole or Triple Quadrupole).				
GCMS-MH-2104c	**Agilent GC/MS MassHunter Acquisition and Data Analysis Software Training**	●	Theory, Hands-on, Software	4 days	2400
Instrument	Agilent 5977 GC/MSD with Agilent 8890 / 8860 / 7890 / Intuvo 9000 GC				
Software	MassHunter GC/MS Acquisition 10.2; Qualitative Analysis 10.0; Quantitative Analysis 12.0				
Description	Gain insight into the overall operation of the Agilent 5977 GC/MS system. Apply this knowledge to ensure your instrument is tuned and your methods are optimized. Use MassHunter Data Analysis applications to efficiently and effectively generate, review and report sample data.				
Who should attend	Routine GC.MS operators who will operate, maintain and troubleshoot the Agulent 5977 GC/MSD with MassHunter Acquisition and Data Analysis				
Pre-requisites	NA				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

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GC/MS Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
GCMS-CS-2101c	**GC/MSD ChemStation Data Analysis and Reporting**	● ● ●	Theory, Hands-on, Software	2 days	1400
Instrument	Any Agilent GC/MSD				
Software	Agilent Chemstation Software				
Description	This course is designed for those who want to enhance their skill in the use of an Agilent GC/MSD ChemStation Data Analysis and Reporting.				
Who should attend	A novice user of the Agilent GC-MSD ChemStation who has a fundamental knowledge of GC-MS				
Pre-requisites	A working knowledge of Windows is highly recommended.				
GCMS-0GEN-3060c	**Interpretation of Electron Ionization Spectra**	● ● ●	Theory	2 days	1200
Instrument	NA				
Software	NA				
Description	Learn how to identify a mass spectrum and obtain skills in mass spectral interpretation to allow you to verify a library match or manually identify the compound.				
Who should attend	An advanced GC/MS operator or GC/MS supervisor with responsibility for identifying unknown spectra or evaluating MS library database search results.				
Pre-requisites	Fundamental understanding of organic chemistry and minimum 6 months experience obtaining spectra with a modern mass spectrometer and data system				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

LC/MS Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
LCMS-6100-2109c	**Agilent LC/MSD Series Techniques and Operation with OpenLab CDS**	● ● ●	Theory, Hands-on, Software	4 days	4000
Instrument	Agilent 6100 Series LC/MS				
Software	Agilent OpenLab CDS				
Description	Designed for users who desire to learn both essential and advanced features of the Agilent 6100 Series SQ LC/MS and Openlab 2.X, you will learn how to run samples and sequences, review data, set up methods that include calibration, and perform routine maintenance in this 4 days course.				
Who should attend	For lab users who are responsible for developing methods using OpenLAB CDS software on the Agilent InifinityLab LC/MSD Series or Agilent 6100 Series SQ LC/MS.				
Pre-requisites	A fundamental understanding of high-performance liquid chromatography and mass spectrometry are expected. A fundamentals course such as the LCMS-0GEN-1000s - Fundamental Principles of Liquid Chromatography with Mass Spectrometry is recommended.				
LCMS-6200-2100c	**Agilent 6200 Series TOF LC/MS Techniques and Operation with MassHunter**	● ● ●	Theory, Hands-on, Software	4 days	4000
Instrument	Agilent 6200 Series TOF LC/MS				
Software	Agilent MassHunter Acquisition; MassHunter Qualitative Analysis; MassHunter Quantitative Analysis; BioConfirm				
Description	Designed for new 6200 LC/TOF users who want to improve on the optimization of your Agilent LC/TOF to produce the best quality high resolution accurate mass data. In this course, you will learn how to extract the most information from your mass data using the data processing power of MassHunter software.				
Who should attend	New lab users for Agilent 6200 Series TOF LC/MS with a basic understanding of high performance liquid chromatography and mass spectrometry.				
Pre-requisites	For better learning experiences, you are recommended to attend Techniques of HPLC (HPLC-0GEN-2000c or HPLC-0GEN-2001c), and online learning courses LCMS-0GEN-1000s - Fundamental Principles of Liquid Chromatography with Mass Spectrometry.				
LCMS-6400-2100c	★ **Agilent 6400 Series QQQ LC/MS Techniques and Operation with MassHunter**	● ● ●	Theory, Hands-on, Software	4 days	4000
Instrument	Agilent 6400 Series Triple Quadrupole LC/MS				
Software	Agilent MassHunter Acquisition; MassHunter Qualitative Analysis; MassHunter Quantitative Analysis				
Description	Enhance your skills in the operation of the Agilent 6400 Series Triple Quadrupole LC/MS. This course will cover triple quadrupole techniques, data acquisition, data reduction, quantitation, reporting, and maintenance. This course includes hands-on instrument operation. Note: Ion funnel features for the 6490 will not be covered during this course.				
Who should attend	Any lab user who wants to expand his or her knowledge of the Agilent 6400 QQQ LC/MS systems.				
Pre-requisites	1 month experience working on Agilent 6400 QQQ LC/MS systems				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

LC/MS Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
LCMS-6500-2100c	**Agilent 6500 Series Q-TOF LC/MS Techniques & Operation for Small Molecules**	● ● ●		4 days	4000
Instrument	Agilent 6400 Series Triple Quadrupole LC/MS				
Software	Agilent MassHunter Acquisition; MassHunter Qualitative Analysis; MassHunter Quantitative Analysis				
Description	Enhance your skills in the operation of the Agilent 6400 Series Triple Quadrupole LC/MS. This course will cover triple quadrupole techniques, data acquisition, data reduction, quantitation, reporting, and maintenance. This course includes hands-on instrument operation. Note: Ion funnel features for the 6490 will not be covered during this course.				
Who should attend	Any lab user who wants to expand his or her knowledge of the Agilent 6400 QQQ LC/MS systems.				
Pre-requisites	1 month experience working on Agilent 6400 QQQ LC/MS systems				
LCMS-6500-2102c	**Agilent 6500 Series Q-TOF LC/MS Techniques and Operation for Large Molecules**	● ● ●		4 days	4000
Instrument	Agilent 6500 Series LC-QTOF				
Software	Agilent MassHunter Acquisition, MassHunter Qualitative and Quantitative Analysis, and MassHunter Mass Profiler				
Description	Enhance your skills in the techniques and software operation of the Agilent Q-TOF LC/MS with an emphasis on small molecule application workflows. Topics include tuning, acquisition, optimization, Worklists, MassHunter Qualitative and Quantitative software and hardware maintenance. Note: Ion Funnel features for the 6550 will not be covered during this course.				
Who should attend	Researcher and routine Analyst responsible for running and performing data analysis using Agilent 6500 Series LC/MS QQQ and MassHunter Qualitative and Quantitative Analysis.				
Pre-requisites	A minimum of 1 month experience on Agilent Q-TOF LCMS is required. A fundamental understanding of high-performance liquid chromatography and mass spectrometry is expected.				
LCMS-6500-2109c	**Agilent 6560 Ion Mobility LC/QTOF Techniques and Operation**	● ● ●		4 days	4000
Instrument	Agilent 6500 Series LC-QTOF				
Software	Agilent MassHunter Acquisition, MassHunter Qualitative and Quantitative Analysis, MassHunter Bioconfirm and MassHunter Mass Profiler				
Description	New 6500 LC-QTOF users involved in analysis of large biomolecules will gain mastery in producing best quality high resolution accurate mass data from the Agilent LC/TOF. In this course, you will also learn how to harness information from your mass data using the data processing power of MassHunter software.				
Who should attend	Researcher and routine analyst responsible for running and performing data analysis using Agilent 6500 Series LC/MS QTOF and MassHunter Qualitative and Quantitative Analysis.				
Pre-requisites	1 month experience on the instrument is desirable with a basic understanding of high performance liquid chromatography and mass spectrometry is recommended				

Legend Theory Hands-on Software **Course Level** Beginner Intermediate Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

LC/MS Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
LCMS-ULTV-2100c	**Agilent Ultivo LC/TQ Techniques & Operation with MassHunter (1.1 Acq/10.0 Qual/10.0 Quant)**	● ● ●	Theory, Hands-on, Software	4 days	4000
Instrument	Agilent Ultivo LC/Triple Quadrupole				
Software	Agilent MassHunter Acquisition; MassHunter Qualitative Analysis; MassHunter Quantitative Analysis				
Description	Operate and troubleshoot your Agilent Ultivo LC/Triple Quadrupole instrument with ease with this 4 days course. In addition, learn how to improve your productivity by optimization of your Ultivo LC/TQ for application, development of targeted MS/MS analysis method, automate aquisition and data processing task using workflows, create quantitative and reporting methods and routine maintenance to reduce downtime.				
Who should attend	For new Agilent Ultivo LC/Triple Quadrupole user with basic understanding of high performance liquid chromatography and mass spectrometry.				
Pre-requisites	For a better learning experience, you are recommended to attend Fundamental Principles of Liquid Chromatography with Mass Spectrometry (LCMS-0GEN-1000s).				
SW-MPP-3101c	**Agilent Mass Profiler Professional Operation for Chemometric Analysis**	● ● ●	Theory, Software	4 days	4000
Software	Mass Profiler Professional				
Description	Process your chemometric data efficiently by learning how to maximise the Agilent Mass Profiler Professional and ensuring that data obtained are suited for multivariate statistical analysis and class predication models. In this course, you will not only learn how to uncover relationships in your chemometric data but create your own class prediction model and classify unknown samples with the Classifier tool.				
Who should attend	Researcher and developing analyst responsible for chemometric data analysis using MassHunter Qualitative Analysis, MassHunter Profinder and Mass Profiler Professional (MPP) applications. One month of experience with MPP is desirable with at least 4 months experience running the Agilent instrument platform acquiring the mass spectral data.				
Pre-requisites	For a better learning experience, you are recommended to attend Agilent 6500 Series Q-TOF LC/MS Techniques and Operation for Large Molecule Applications course (LCMS-6500-2102c).				
LCMS-6100-2100c	**Agilent 6100 Series LC/MS SQ Techniques and Operation with OpenLAB CDS ChemStation**	● ● ●	Theory, Hands-on, Software	4 days	3200
Instrument	Agilent LC/MSD, or LC/MSD XT				
Software	Agilent OpenLab CDS Chemstation				
Description	Gain confidence in operating and troubleshooting your Agilent Single Quadrupole LC/MS instrument. Improve your productivity by automating data acquisition, data processing and reporting using the tools provided in OpenLAB CDS ChemStation.				
Who should attend	This course is designed for an Agilent LC/MSD, or LC/MSD XT user who is responsible for operation, routine maintenance and data analysis, using OpenLab CDS Chemstation operating system.				
Pre-requisites	1 month experience using the instrument with basic mass spectrometry and liquid chromatography experience preferred. If you have no LC or MS experience, it is recommended you take the LCMS-0GEN-1000s- Fundamental Principles of Liquid Chromatography with Mass Spectrometry online series before attending this course.				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

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LC/MS Chromatography Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
LCMS-MULTI-2201c	**Agilent LC/MS System Troubleshooting and Maintenance**	● ● ●		2 days	2000
Instrument	All models of LC/MS				
Software	Agilent Chromatographic Data System Software				
Description	Produce high quality data from your Agilent LC/MS, by learning how best to maintain and troubleshoot your instrument. Minimize your instrument downtime to maximize your investment.				
Who should attend	This course is designed for an Agilent LC/MS user who is responsible for operation and routine maintenance.				
Pre-requisites	1 month experience using the instrument with basic mass spectrometry and liquid chromatography experience preferred.				

Legend Theory Hands-on Software **Course Level** Beginner Intermediate Advanced ★ Most popular

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Spectroscopy Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
AA-FLM-2002c	**Techniques of Agilent Flame AA Spectroscopy**	● ● ●	Theory, Hands-on, Software	1 day	500
Instrument	Agilent 240/280 AA				
Software	SpectraAA software				
Description	Learn about the AA productivity tools available such as SIPS, SPS-3 and Fast Sequential AA and discover ways of troubleshooting and maintaining your equipment for greater uptime. In addition, you will also learn to overcome interferences and optimize your methods for improved accuracy and precision.				
Who should attend	Any Varian or Agilent Flame AA user who wants to learn how to operate Flame AA Spectroscopy.				
Pre-requisites	None				
ICPOES-5100-2000c	**Agilent 5100 Techniques for Simultaneous ICP-OES**	● ● ●	Theory, Hands-on, Software	3 days	1800
Instrument	Agilent 5100 series ICP-OES				
Software	Agilent ICP Expert				
Description	Ensure optimum performance of your system by learning how to perform basic sample handling, method creation and optimization, and pick up best practices in overcoming interferences for better accuracy and precision. You will also be given tips and tricks to reduce analysis time and how to perform routine troubleshooting and maintenance.				
Who should attend	ICP-OES users who are responsible for sample analysis, method development and essential maintenance of the 5100 series ICP-OES system.				
Pre-requisites	A minimum of 1 month experience on Agilent 5100 series ICP-OES.				
ICPOES-5800-2000c	**Agilent 5800/5900 Techniques for Simultaneous ICP-OES**	● ● ●	Theory, Hands-on, Software	3 days	1800
Instrument	Agilent 5000 series ICP-OES				
Software	Agilent ICP Expert				
Description	Perform analysis using our state-of-the-art IntelliQuant Screening and Analysis functions with ease and learn how to independently perform maintenance and troubleshooting with this hands-on course. You will also learn to create ICP EXpert worksheets and familiarize yourself with ICP-OES instrument components and Background and Spectral interference correction techniques.				
Who should attend	New user for Agilent 5100, 5110, 5800 or 5900 ICP-OES who is familiar operating ICP Expert V 7.5 software.				
Pre-requisites	None				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

Spectroscopy Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
ICPMS-7700-2100c	**Agilent 7700 ICP-MS Techniques & Operation**	● ● ●		4 days	3200
Instrument	Agilent 7700 series ICP-MS				
Software	Agilent MassHunter software				
Description	This Techniques & Operation course is designed for beginners through to intermediate level, and is aimed at providing a comprehensive overview of the Agilent 7700 Series ICP-MS technique and Agilent's MassHunter software. You will be introduced to some advanced topics such as laser ablation, direct organic solvent sampling and chromatography sample introduction.				
Who should attend	Beginner to experienced users who need to operate Agilent 7700 series ICP-MS.				
Pre-requisites	None				
ICPMS-7900-2100c **ICPMS-7900-2101c**	**Agilent 7800/7900 ICP-MS Techniques & Operation**	● ● ●		4 days 3 days	3200 2400
Instrument	Agilent 7800/7900 series ICP-MS				
Software	Agilent MassHunter software				
Description	Designed as a beginner to intermediate level class for Agilent customers, this course is aimed at providing a comprehensive overview of the Agilent 7800 and 7900 Series ICP-MS systems, along with the fundamentals of the ICP-MS technique, and Agilent MassHunter software.				
Who should attend	For lab users who have responsibility for operation and maintenance of the Agilent 7800 and/or 7900 ICP-MS system for both routine and non-routine samples.				
Pre-requisites	None				
ICPMS-8900-2100c	**Agilent 8900 ICP-MS Techniques & Operation**	● ● ●		4 days	3200
Instrument	Agilent 8900 series ICP-MS				
Software	Agilent MassHunter software				
Description	This course offers a comprehensive overview of the Agilent 8900 Triple Quad ICP-MS and Agilent MassHunter software.				
Who should attend	For lab users who need to learn how to run analysis on the Agilent 8900 series ICP-MS				
Pre-requisites	A minimum of 1 month experience on Agilent 8900 series ICP-MS				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

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Spectroscopy Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
AA-FLM-2200c	**Agilent Flame AA Maintenance & Troubleshooting**	● ● ●		1 days	600
Instrument	Agilent Flame AA				
Software	SpectraAA software				
Description	Intended for the AA user and those that want to learn basic maintenance and troubleshooting techniques for the Flame AA. A basic knowledge of Flame AA theory and SpectrAA software v 5.3 is advantageous, but not critical. Students will learn how to disassemble the sample introduction system, optimize the lamps and Burner head, and learn how to troubleshoot and resolve the most common issues.				
Who should attend	Introductory course most suited for operators that have had a few weeks' time to gain basic familiarity with an Agilent 55B, 240FS, or 280FS AA system operating on SpectrAA software.				
Pre-requisites	None				

Legend Theory Hands-on Software **Course Level** Beginner Intermediate Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

Software Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
SW-OL-3170c	**Agilent OpenLab CDS Intelligent Reporting Workshop**	● ● ●		1 day	600
Software	OpenLab CDS Chemstation				
Description	Acquire skills in utilizing the new Intelligent OpenLAB report writer. Topics progress from using the Report Wizard and basic template layouts to complex calculations.				
Who should attend	Anyone with a familiarity of the Agilent ChemStation revision C who would like to increase their knowledge of the new Intelligent Reporting software, specifically for designing customized report templates.				
Pre-requisites	For a better learning experience, you are recommended to attend the Agilent Infinity LC Series OpenLab CDS ChemStation (3D) course (HPLC-INF-2100c or HPLC-INF-2101c) before attending this course.				
SW-OLII-1100c	**OpenLab CDS Operations for Workstation**	● ● ●		2 days	1000
Software	OpenLab CDS				
Description	Designed for operators, and technicians that use instruments connected to OpenLAB 2.x in a workstation setup on a routine basis to run a variety of instruments (LC/GC/LCMS/GCMS) for data acquisition. It will cover how to run sequences in the new software as well as the latest data analysis workflow, including integration, calibration, and reporting. OpenLAB CDS Version 2.1 is utilized in this course.				
Who should attend	Anyone who would like to create methods, setup runs, and use all of the features of their OpenLab CDS Workstation system. This class is more geared towards end-users who will be interacting with the software regularly.				
Pre-requisites	Basic understanding of instrument operation using previous versions of ChemStation.				
SW-OLII-1800c	**OpenLab CDS Control Panel Administration**	● ● ●		1 day	500
Software	OpenLab CDS				
Description	Have you purchased a new instrument or recently upgraded to OpenLab CDS? Do you want to make sure your system is configured properly for your lab, with the appropriate privileges and audit trails to ensure you are in compliance with your SOPs? Walk through the system setup process step-by-step. Identify the features that will apply to your lab and workflows. Customize the software to make the most of all the built-in features for security, audit trails, and lab management. Create users, groups, and roles, with tailored privileges. Restrict privileges to projects and instruments. Discover all of your audit trails and activity logs throughout the OpenLab CDS system, including Control Panel, Acquisition, and Data Analysis.				
Who should attend	For any user desiring the skills to set up, configures and maintains their OpenLab CDS system. This class is more geared towards people who will be setting up and managing the system than people who will be general users.				
Pre-requisites	A basic understanding of computers and Windows functionality is required.				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

Software Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
SW-OLII-3170c	**OpenLAB 2.x CDS Custom Reporting and Calculations**	● ● ●		2 days	1600
Software	OpenLab CDS				
Description	This classroom training will provide the skills necessary to design and create custom OpenLAB 2.1 Intelligent Reports. Topics follow a typical report creation lifecycle, integrating report requirements definition and design with the skills needed build a report that satisfies those requirements.				
Who should attend	Any lab user who is familiar with OpenLAB 2.1 Data Analysis software and CDS data hierarchy.				
Pre-requisites	Some familiarity with customizing software using simple commands is preferred. User should be comfortable with using Excel and perhaps creating some formulas.				

Legend Theory Hands-on Software **Course Level** Beginner Intermediate Advanced ★ Most popular

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General Courses

Course Number	Course Name and Description	Course Level	Course type	Number of day(s)	Training Credits
SW-OL-2140c	**Understanding Peak Integration and Best Practices**	● ● ●	Theory, Software	1 day	500
Instrument	NA				
Software	Agilent Chromatographic Data System Software				
Description	Equip yourself with the right fundamental knowledge for your peak integration work. Learn how to perform peak integration using Agilent Chromatographic Data System Software.				
Who should attend	Any lab user who is required to perform peak integration in their daily work. This is also suitable for users who need to understand peak integration from Regulatory perspective.				
Pre-requisites	A fundamental understanding of chromatography is required. If you have no GC experience, please take the Practical Gas Chromatography (GC-0GEN-2000c or GC-0GEN-2001c) and/or Techniques of HPLC course (HPLC-0GEN-2000c or HPLC-0GEN-2001c) prior to attending this course.				
LAB-0GEN-3090c	**Analytical Method Validation**	● ● ●	Theory	2 days	1600
Instrument	Any analytical instrument				
Software	NA				
Description	Learn ways to develop the right strategy to implement Analytical Method Validation according to regulatory standards. You will learn how to perform method validation, develop a robust and repeatable method, reduce the time used for method validation and gain awareness for ISO certification or Compliance requirements.				
Who should attend	Any lab user who wants to understand the method validation process, regulatory and quality standards.				
Pre-requisites	A fundamental understanding of chromatography is required.				
SW-OL-2130c	**OpenLAB CDS ChemStation System Suitability in Practice**	● ● ●	Theory, Hands-on	1 days	600
Software	NA				
Description	Agilent GC / LC OpenLAB ChemStation				
Who should attend	This course will help you implement a quality system in your laboratory by using the System Suitability functions and reporting.				
Pre-requisites	Experiences in GC or LC OpenLAB ChemStation C.01.xx operation and data analysis is preferred. Some experience with either GC or LC Agilent's OpenLAB ChemStation Software operation and a fundamental understanding of Method Validation are expected such as the usual contents of the outline of the ISO/IEC 17025 standard and their specification ranges result.				

Legend Theory Hands-on Software **Course Level** ● Beginner ● Intermediate ● Advanced ★ Most popular

Please note that not all courses listed will be available for your country, some may vary in the number of days. Kindly check with our Training Coordinator to confirm availability prior to your registration.

General Information

Registration

Chat with us to register for all courses. Registration closes 10 business days before the scheduled course date.

Terms and conditions, cancellations and rescheduling

- Course fees include materials and instrument usage (where applicable).
- Agilent reserves the right to reschedule or cancel any course 10 working days prior where minimum enrollment is not met. For Overseas course attendees, please check with our Training Coordinator on Course availability and local border measures prior to making your airline tickets bookings
- Attendee may reschedule or cancel Services by providing written notice to Agilent, which may be sent electronically, no later than ten (10) working days prior to the scheduled start date.
- Efforts will be made to place the attendee in the next available class.
- There will be a 50% service charges if rescheduling notice is received 2 to 9 working days before class commencement. 100% of the Service charges will apply if notice is received lessthan 2 working days prior to when Services are scheduled.
- Complimentary Services will be forfeited if attendee attempts to reschedule with less than ten (10) business days.
- All course schedules and course fees are subject to change without prior notice.

Safety

Maintaining a safe environment at our training centres for both our students and instructors is our utmost priority. We are:

Increased cleaning and disinfection in work areas, common areas, customer areas, buses and vans.

Adjusted ventilation to optimize fresh air and limit recirculation.

Enforcing social distancing and adding barriers, PPE or other precautions when needed.

Controlling access to our facilities and implementing temperature checks or other symptom screenings at some locations.

Providing face coverings and gloves in some areas.

Implemented company-wide procedures for suspected or confirmed COVID cases.

Keeping You Safe

Protocols vary by site. Please talk to your Agilent host prior to your visit to understand more. **Thank you for your help to ensure we keep our sites safe for everyone.**

Agilent CrossLab Services

CrossLab is an Agilent capability that integrates services and consumables to support workflow success and important outcomes like improved productivity and operational efficiency. Through CrossLab, Agilent strives to provide insight in every interaction that helps you achieve your goals. CrossLab services include method optimization, flexible service plans, and training for all skill levels. We have many other products and services to help you manage your instruments and your lab for best performance.

Learn more about Agilent CrossLab, and see examples of insight that leads to great outcomes, at www.agilent.com/crosslab/university

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Published in the Republic of Korea, December 04, 2023
5994-2980ENUC

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