



**Asia Masters Center**

# Gas & Liquid Chromatography & Troubleshooting



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## Gas & Liquid Chromatography & Troubleshooting

### Course Objective

- Gain the basic theoretical aspects of Gas Chromatography
- Communicate practical information, capabilities and limitations of Gas & Liquid Chromatography
- Gain confidence on the analysis technique, troubleshooting and analytical results evaluation

### Target Audience

- This seminar is ideal for lab and quality professionals that do not have formal training or experience in gas chromatography or those that want to refresh their current knowledge of gas chromatography. It is also suitable for Environmental Quality Personnel.



## Course Outline

### ➤ DAY 1

- Introduction to Chromatography
- The History of Chromatography – GC & LC
- Overview of GC & LC Chromatography
- The Modern Chromatography
- Liquid Chromatography – The Development Process
- Factors Controlling Retention
- Molecular Forces and Chromatographic Selectivity
- Effects of Stationary Phase Loading on the Performance of a Chromatographic System
- Chromatography Nomenclature

### ➤ DAY 2

- Chromatography Basics
- Basic Chromatography
- Sample Introduction
- The role of sample introduction and injection ports in GC operations
- Injection ports maintenance and its impact on GC performance
- Columns
- The role of columns in GC operations
- Column selection & maintenance
- How columns can impact GC performance



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- DAY 3
- GC Operation
- Peak Dispersion in a Chromatographic Column
- Detector Selection
- The role of Detectors in GC operations
- Detector maintenance
- How detectors can impact GC performance
- Setup and GC operation, basic steps
- Preparation for operation
- Sampling Techniques
  
- DAY 4
- Data Acquisition and Calibration
- Calibration
- Data Acquisition and Processing System
- Calibration linked to GC performance
  
- DAY 5
- Applications and Troubleshooting
- Chromatography Applications
- Method Development
- Gas Chromatography
- Liquid Chromatography
- ISO17025 Accreditation Basics
- Laboratory Management & Troubleshooting

### ➤ **The Feature Of Asia Master Training And Development Center**

- we pick up the customer from the airport to the hotel.
- we give the participant training bag includes all the necessary tools for the course.
- Working within groups to achieve the best results.
- All our courses are confirmed and we do not postpone or cancel the courses regardless of the number of participants in the course.
- We can assist you in booking hotels at discounted prices if you wish to book through us.
- We offer the certificate from Asia Masters Center for Training and Administrative Development.

### ➔ **The Cost Of The Training Program Includes The Following:**

- 1) Scientific article on flash memory.
- 2) Training Room.
- 3) Training.
- 4) Coffee break.
- 5) The training bag includes all the tools for the course.



## Asia Masters Center

### Price (USD)

Communicate with the training department  
to know the participation fees

➤ **There are offers and discounts for groups**

### The details of the bank account

Bank name: CIMB Bank Berhad

Account name: Asia Masters Center SDN. BHD

Bank account number: 80-0733590-5

Swift code: CIBBMYKL

IBAN: Null