

**ChromStation Sdn. Bhd.** (839214-T)

No. 2A, Jalan Putra Mahkota 7/8A,  
Putra Point Business Center, Putra Heights,  
47650 Subang Jaya, Selangor, Malaysia  
Email : foo@chromstation.com  
www.chromstation.com

**Course Title** : **Chromatography Familiarization Course for Gas & Liquid Chromatography with Supplementary MS Introduction & Practical**

**Training Date** : 13-16<sup>th</sup> Oct 2014

**Training Venue** : ChromStation and ChromLab (M) Sdn Bhd  
No 6, Jalan Mega B, Taman Industrial Mega, Bandar Technology Kajang, 43500 Semenyih,  
Selangor, Malaysia

**Fees** : RM 2,350

**Trainer** : HC Foo  
Has over 20 years experiences in Gas & Liquid Chromatography in various industries and fields ranging from petrochemical, food, pharmaceutical, environmental and forensic .  
To his credit he worked for 12 years as regional chromatography specialist, specialized in method development, technical consultation and training. Now works as independent and appointed consultant, and trainer for GC, HPLC, LCMS and GCMS as well as spectroscopic range of instruments.

**Course Contents:****Day 1**

9.00 - 12.30 Basic Principle of HPLC  
Module of Conventional & Advance LC Systems  
Chromatographic Parameters & Their Effects to Chromatography Separation  
Understanding Column Chemistry in Helping Method Development Process

2.00 – 5.30 **Practical Session 1**  
Startup HPLC Systems with Various Modules  
Mobile Phase & Sample Preparation  
Guide on Building LC Method Right on the First Time  
Learn Isocratic & Gradient Run with Regards to Sample Types & Objective

**Day 2**

9.00 – 12.30 Strategies in Mobile Phase Optimization  
Stationary Phase Chemistry for Reverse Phase HPLC  
Hydrophobic Interaction Chromatography & Related Technique  
Standard Practices in HPLC Method Development

2.00 – 5.30 **Practical Session 2**  
Find Common Problems & Learn Guides on Troubleshooting  
Learn the Effect due to Column Dimension & Bonding Phase  
Learn the Effect due to Mobile Phases  
Learn How to Optimization LC Separation



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**Day 3**

9.00 – 12.30 Gas Chromatography (GC)  
- The Introduction of Gas Phase Separation Science  
Theory & Practicality on GC Hardware  
- Configuration, Functionality and Applicability

2.00 – 5.30 **Practical Session 3**  
Practical on GC Operation and Optimization  
Develop Various Types of Sample Introduction Techniques  
User Maintenance & Troubleshooting Guide  
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**Day 4**

9.00 – 12.30 Improving Throughput, Resolution, Repeatability and Accuracy of GC Method  
Mass Spectrometry (MS) - The Advantage of Mass Spectrometer in Accuracy &  
Confirmation of Chromatography Analysis

2.00 – 5.30 **Practical Session 4**  
Practical on Mass Spectrometer Setup, Tuning & Calibration  
Case Study on Method Development using Mass Spectrometer for Various  
Sample Matrices Given