



## Understanding Gas Chromatography Through the Best Possible Method

DCG Partnership I, Ltd. is offering Gas Chromatography training courses for a variety of analytical instruments. These courses will benefit the beginner to intermediate level chromatographer. Previous gas chromatography knowledge is not a prerequisite to attend these courses. The course will consist of a three hour classroom discussion. The remaining time will be spent in an actual production laboratory with experienced chromatographers. This is a hands-on course and class sizes are very limited.

- Three hour classroom discussion of the basics of gas chromatography
  - ✓ Basic understanding of how a gas chromatograph works
  - ✓ Inlets
  - ✓ Carrier Gas
  - ✓ Columns
  - ✓ Ovens
  - ✓ Detectors
  - ✓ Data handling systems
  
- Laboratory Instrumentation available for course study
  - ✓ Sulfur and Nitrogen Analysis
    - Thermo NS Model 3000 (UVF) for Total Sulfur and Total Nitrogen Analysis with the NeXYZ Liquids Auto Sampler, EGMII Gas Module and Theus Software Package.
    - Antek 9000 (UVF) with Auto Sampler and Antek Software Package for Total Sulfur Analysis.
    - Sievers 355B SCD (sulfur chemiluminescence detector) with Hewlett Packard 5890 Series II chassis with Chemstation for Speciated Sulfur Analysis.
    - Antek 7090 NSCD (nitrogen and sulfur chemiluminescence detector with Hewlett Packard 5890 Series II chassis with Chemstation for Speciated Nitrogen and Speciated Sulfur Analysis.
    - OI Analytical PFPD (Pulsed Flame Photometric Detector) with a Hewlett Packard 5890 Series II chassis with Chemstation for Speciated Sulfur Analysis.
  - ✓ Natural Gas Analysis
    - Varian CP4900 Micro GC with 4 modules, 4 TCD and Galaxie Software Package.
    - Hewlett Packard 5890 Series II with C6+ back flush, dual TCDs and Chemstation.
    - Hewlett Packard 6890 with Twin FIDs, EPC and Chemstation for Extended Natural Gas Analysis.
  - ✓ Natural Gas Liquids Analysis
    - Varian 2003 Micro GC with four modules, four TCDs, Gasifier and Star workstation.
    - Hewlett Packard 5890 Series II with dual TCDs and Chemstation for Natural Gas Liquids extended analysis through C<sub>10</sub>.
  - ✓ Olefin Analysis
    - Agilent Technologies 5890 Series II GC with dual FIDs and Chemstation.

4170 A Main Pearland, TX 77581 PH: 281-648-1894 FAX: 281-648-1895  
www.dcgpartnership.com  
E-mail: sales@dcgpartnership.com

Chromatographic Reference Materials



- ✓ Detailed Hydrocarbon Analysis
    - Agilent 6890 GC with EPC and Analytical Controls Software Package.
  - ✓ Gas Chromatograph/Mass Spectrometer
    - Hewlett Packard 5890 Series II Plus GC and Hewlett Packard 5972A Mass Selective Detector with standard HP software package for GC/MS and Chemstation.
  - ✓ Atomic Emissions Detector
    - Agilent 6890 chassis with a Hewlett Packard 2350A Atomic Emissions Detector with Chemstation for AED.
- General Gas Chromatograph Maintenance.
- How to properly calibrate a Gas Chromatograph.
- How to use check standards.

These are hands on courses. Students will choose what instruments they will study at time of course registration. Class sizes are very limited so each student spends as much time as possible running samples and learning. Courses are provided on a continuous basis. Students can choose one instrument to study or they can choose several instruments to study. Please remember to allow ample time per instrument so the students can be properly trained for each instrument.

DCG is conveniently located 9 miles southwest of Hobby Airport in Pearland, Texas. Discounted accommodations have been negotiated with local hotels. Pearland, Texas is a bedroom community of Southeast Houston.

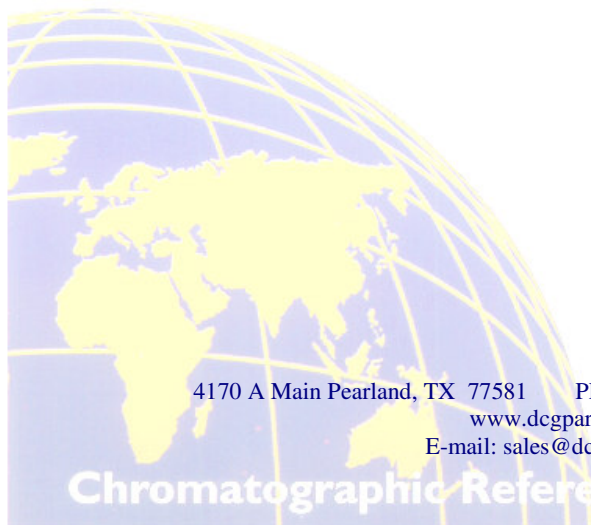
**Cost:**

One Student: \$3,500.00 per week or \$800.00 per day..

Two or more students from same company: \$3,000.00 per student per week \$700.00 per day per student.

Lunch included.

For more information regarding DCG's Gas Chromatography School or to schedule your training please contact DCG Customer Service at [customerservice@dcgpartnership.com](mailto:customerservice@dcgpartnership.com) or 281-648-1894 or Fax 281-648-1895.



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