Experts in GC Training

For high quality jobs in the United States, U.S. employers need a highly skilled, technical workforce. Skilled workers are more productive, independent, flexible, and proactive. To this end, Custom Solutions Group has established training courses in gas chromatography at our facility in Katy, Texas, just seven miles west of Houston's Energy Corridor.

Custom Solutions Group offers practical training in gas chromatography, for both novice and experienced gas chromatographers.

Because we are highly proficient in a number of hardware platforms, we are able to tailor each training course to the specific needs of individual chromatographers. Because we are experts in a variety of ASTM, GPA, and other industry-standard methods, we can assist individual chromatographers in meeting the diverse needs of employers in the petroleum, petrochemical, natural gas, high purity gas, specialty gas, specialty chemical, semiconductor gas, catalysis, biofuel and research industries.

Basic GC Course Topics

- Theory and Principles of Gas Chromatography
- Hardware Function and Principles
- Carrier Gas and Supply Gas Controls
- Types of Injectors and Inlets
- Columns, Classifications and Principles
- Detector Types, Uses, and Functions
- Instrument Calibration
- Sampling Issues

With the move of U.S. GC manufacturing overseas, Custom Solutions Group was formed in April 2004, to provide U.S. - based gas chromatographers with the highest quality, customized solutions in gas chromatography. In conjunction with our business partners, Custom Solutions Group designs, builds and commissions new and used gas chromatographs, customized to meet the needs and the specific analytical challenges of scientists, chemists, engineers and technicians in a variety of industries, including: petroleum, petrochemical, natural gas, high purity gas, specialty gas, specialty chemical, semiconductor gas, catalysis, biofuel and research industries. Our team combines decades of experience in customized gas chromatography. We are Made-in-the-U.S.A. on the U.S. Gulf Coast. Our operations heavily emphasize continuous quality improvement and lean manufacturing, enabling us to provide fast, flexible solutions at the highest value, in the least amount of time, thus saving time and money for inexperienced, understaffed, and/or overburdened laboratories..

Training incudes:

- Courses consist of lecture and hands on familiarization.
- Lunch, smacks, and beverages are provided.

Enrollment

Email: sales@csg-labs.com
Call: Kerry Kreiling (281) 507-9569

Class Schedule 2026

February 3-4	Tuesday and Wednesday
February 5-6	Thursday and Friday
April 7-8	Tuesday and Wednesday
April 9-10	Thursday and Friday
July 14-15	Tuesday and Wednesday
July 16-17	Thursday and Friday
September 8-9	Tuesday and Wednesday
September 10-11	Thursday and Friday
October 6-7	Tuesday and Thursday
October 8-9	Thursday and Friday

Experience

Petroleum and Petrochemicals
Natural Gas and Natural Gas Liquids
Refinery Gas and Refinery Gas Liquids
High Purity Ethylene and Propylene
Liquified Petroleum Gases
Condensates and Live Crudes
Acid Gases
Simulated Distillations
Detailed Hydrocarbon Analysis
Trace CO and CO_2
Trace Oxygenates
Trace Sulfur Speciation and Total Sulfur
Trace Ammonia and Amines
Trace Permanent Gas Impurities
Chlorine and Vinyl Chloride

Specialty Gases
Trace Impurities in High Purity Gases
Permanent Gases
Synthesis Gas
Medical Gases
Laser Gases
Reference Standard Gases
Reference Standard Liquified Gases
Hydrogen and Hydrogen Fuel Cells
Battery Gases
Refrigerant Gases
Beverage Grade Carbon Dioxide

Electronics Gas Analysis
Trace Impurities in Hydride Gases
Trace Impurities in Fluoride Gases
Trace Impurities in Chloride Gases
Trace Impurities in Halocarbon Gases
Semiconductor Gas Blends
High Purity Ammonia

Research and Biofuels
Catalysis and Process Research
Membrane Research
Carbon Cycle Research
Greenhouse Gas Analysis
Ethanol and Biofuel Analysis
Gas-to-Liquids Technology
Biomass-to-Liquids Technology

Special Products
Class 1 Division 2 Enclosures for Agilent GC
Modbus Protocol for On-Line Operation
Vacuum and Low-Pressure Gas Sampling
Automated, Multi-Stream Gas Sampling
Tedlar Bag Autosampler
Heated Gas Cylinder Autosampler
Gasifier and Vaporization of Liquid Samples
Software for Calculation of Physical Properties
Headspace Sampling
Solid Phase Micro Extraction (SPME)
Real-Time Gas Analyzer Direct Inlet Mass Spectrometry

Reliability

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