Custom Solutions Group LLC
1419 Avenue A, Katy, TX 77493
Office: 281.574.9999
E-Mail: sales@csg-labs.com

Agilent Technologies
Channel Partner

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 LLC 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 LLC 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

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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 just-in-time 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.

- ✓ Courses consist of lecture and some hands on familiarization.
- ✓ Lunch, Snacks and Beverages are provided.

Class Schedule - Spring 2025

February 4-5th	Tuesday	&	Wednesday
February 6-7th	Thursday	&	Friday
April 1-2nd	Tuesday	&	Wednesday
April 3-4th	Thursday	&	Friday

Enrollment

Email: sales@csg-labs.com

Call: Kerry Kreiling (281) 507-9569

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Petroleum & Petrochemicals

Natural Gas and Natural Gas Liquids (including early regroup and extended analysis)
Refinery Gas and Refinery Gas LIquids (including rapid refinery gas analysis)
Simulated Distillations
Detailed Hydrocarbon Analysis
High Purity Ethylene and Propylene
Trace CO and CO2
Acid and Sulfur Gases
Trace Sulfur Speciation
Sulfur Simulated Distillations

Special Products

Automated Stream Selection
Heated Cylinder Gas Autosamplers
Liquefied Petroleum Gas Autosamplers
Specialty Gas Autosamplers
Low Pressure and Vacuum Sampling Panels
Class 1 Division 2 and Class 1 Division 1 Enclosures

Research and Biofuels

Catalyst Research
Membrane Research
Greenhouse Gas Analysis
Ethanol Analysis
Biodiesel Analysis

Specialty Gas

Permanent Gases
Rapid Synthetic Gas Analysis
Medical Gases
Trace Impurities in High Purity Gas
Reference Gases
Reference Gas-Liquids Standards
Hydrogen Generation and Fuel Cell Analysis
Beverage Grade CO2 Analysis
Chlorine Gas Analysis
Halocarbon Gases and Liquids
Hydride Gases
Acid Gases

Electronics Gas Analysis

Trace Impurities in Hydride Gases
Trace Impurities in Fluoride Gases
Trace Impurities in Chloride Gases
Trace Impurities in High Purity Halocarbon Gases