Totalflow Upstream Oil & Gas Solutions
Gas Chromatography (NGC, PGC1000)

Course goal
This course is a new course that has combined the previous Level 1 and Level 2 gas chromatograph courses. This course will cover the basics of gas chromatography, proper installation and setup, along with providing proper operation of the ABB NGC, PGC1000 gas chromatograph.

Learning objectives
Upon completion of this course, the participants will be able to:

- Hardware installation
- Identify hardware components
- Disassembly and reassembly
- Use PCMU32 software for start up, maintenance, and calibration
- Perform a manual peak find
- Manage configuration files
- Use 32-Bit Loader
- Set up data integration, trending, and operations
- Operate unit manually, open and close valves, check pressures, and troubleshoot results
- Set up MODBUS® communication
- Saving calibration
- Viewing chromatograms
- Therms communication
- Collecting and saving data
- Save and Restore
- Reporting
- Calibration

Course type and methods
This is an instructor-led course with interactive classroom discussions, presentations, and practical exercises. At least 50% of this course is hands-on operation and lab activities.

Duration
The duration is 3 days – 8:30 a.m. to 4:30 p.m. each day.

Topics
- Equipment installation and setup
- Analysis set up and manual peak find
- Manual set up and operation
- 32-Bit Loader, flash, and packages
- Troubleshooting alarms, chromatograms

Prerequisites
Students attending this course should have basic knowledge of gas analysis and proficient computer skills.

Find the course schedule at:
www.abb.com/totalflow-training