

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.

Participant profile

This course is recommended for attendance by automation technicians, I&E technicians, facilities engineers, facilities operators, field operations leaders, gas controller/schedulers, lease operators (pumper), plant coordinators, procurement coordinators, production coordinators, production technicians, and technical services maintenance coordinators.

Learning objectives

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

- Hardware installation
- Install and leak check sample tubing
- Identify hardware components
- Disassembly and reassembly
- Troubleshoot and replace hardware components
- Use PCCU32 software for start up, maintenance, and calibration
- Perform a manual peak find
- Set up Ethernet remote communications
- Manage configuration files
- Use 32-Bit Loader
- Set up data integration, trending, and operations
- Test and adjust forward flow and inject time
- Operate unit manually, open and close valves, check pressures, and troubleshoot results
- Understand, troubleshoot, and set up alarms
- Set up MODBUS® communication

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.

ABB Inc.

Upstream Oil & Gas

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Topics

- Equipment installation and setup
- Analysis set up and manual peak find
- Manual set up and operation
- 32-Bit Loader, flash, and packages
- Forward flow/inject time test and adjustment
- Troubleshooting alarms, chromatograms
- Saving calibration
- SD card data manipulation
- Ethernet set up
- Operations and holding registers
- Therms communication
- Collecting and saving data
- Save and Restore
- Reporting
- Calibration

Prerequisites

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

Date	Location	Date	Location
01/12/16	Bartlesville, OK	07/19/16	Bartlesville, OK
02/02/16	Odessa, TX	07/26/16	Natrona Heights, PA
02/09/16	Bartlesville, OK	08/16/16	Pleasanton, TX
03/01/16	Natrona Heights, PA	08/30/16	Liberal, KS
03/08/16	Bartlesville, OK	09/13/16	Bismarck, ND
03/22/16	Liberal, KS	09/27/16	Odessa, TX
04/12/16	Pleasanton, TX	11/01/16	Bartlesville, OK
04/26/16	Liberal, KS	11/08/16	Natrona Heights, PA
05/10/16	Odessa, TX	11/15/16	Bakersfield, CA
05/24/16	Bartlesville, OK	11/29/16	Pleasanton, TX
06/07/16	Bakersfield, CA	12/13/16	Bartlesville, OK