ABB MEASUREMENT & ANALYTICS | COURSE DESCRIPTION

NGC8200/PGC1000 Level Two (Z921)

Learning objectives

- Disassemble and reassemble primary GC components.
- Troubleshoot and replace hardware components
- Perform manual peak find for setup and troubleshooting.
- Manage flash and configuration files using 32-Bit Loader and Save and Restore functions.
- Set up trending, and operations
- Chromatography: Advanced Concepts - Testing and adjusting forward flow and inject times
- Operate unit manually, open and close valves, check pressures, and troubleshoot results
- Understand, troubleshoot, and set up alarms
- Set up TCP MODBUS® communication
- Sending Live analysis to a flow computer using the NGC Client application
- Portable GC Operation
- Control chromatograph based on measurement tube feedback.
- (Opt) Set up Ethernet remote communications

Course description

This course will instruct the student in the more advanced setup and operation of the NGC/PGC1000 gas chromatograph, as well as it's interaction with the ABB flow computer.

Topics

- Ethernet set up
- Analysis set up and peak find
- Manual set up and operation
- 32-bit loader, flash, and multiple file packages
- Troubleshooting alarms, chromatograms, and diagnostics
- Saving calibration to GC module
- SD card data manipulation
- Operations and holding registers
- Modbus® communication
    - Trending
    - Portable NGC
    - Role Based Access Control

Course type and methods

This is an instructor-led course with interactive classroom discussions, presentations, and practical exercises on fully functioning equipment. At least 50% of this course is hands-on operation and lab activities. Laptops will be provided.

Duration

The duration is 3 days – 8:30 a.m. to 4:30 p.m. each day. Doors open at 8:00 a.m local time.

Prerequisites

Students attending this course should have basic knowledge of gas analysis and chromatography as taught in NGC 8200/PGC1000 Level One (Z920), PCCU32 software, and proficient computer skills.

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