

NGC8200/PGC1000 Level Two - Z921

Three-day course, 8:00am - 4:00pm



Course description

This course will instruct the student in the more advanced set up and operation of the NGC/PGC1000 gas chromatograph, as well as its interaction with the ABB flow computer.

Basic knowledge of gas analysis and chromatography as taught in NGC 8200/PGC100 Level One (Z920 or Z922), PCCU32 software, and proficient computer skills are requirements.

Learning Objectives

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

- 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
- Operate unit manually, open and close valves, check pressures, and troubleshoot results
- Understand and troubleshoot alarms
- Set up TCP MODBUS communication
- Send live analysis to a flow computer using the NGC Client application
- Understand portable GC operation
- Control chromatograph based on measurement tube feedback

Topics

- Ethernet setup
- Analysis setup and peak find
- Manual setup 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 (Optional)

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 time is hands-on operation and lab activities. Laptops will be provided. Lunch is provided