

Process Analyzers

Maxum Operation with GCP Level 2

General Information

Course Code: PIA-PAMAXGCP2
Length: 4 Days

Audience

This course uses Siemens Gas Chromatograph Portal (GCP) workstation software and is intended for individuals responsible for maintaining the Maxum Gas Chromatograph and for users who need to perform routine maintenance and calibration.

Prerequisites

- Maxum Operation with GCP Level 1

Profile

2.6 CEUs (Continuing Education Credits)

This course provides the students with more hands-on training with the Maxum GCP workstation software. (GCP replaces both System Manager and EZChrom).

This course continues reviewing the software table structure and how it can be modified to add functionality to the Maxum Gas Chromatograph. Students learn how to create methods and sequences from scratch, as opposed to modifying an existing method or sequence.

This course can be taught at the customer's site and customized to meet the customer's needs. With advance notice, customer specific applications can be taught.

Objectives

Upon completion of this course, the student shall be able to:

- Setup and calibrate using the Color Touch Screen
- Run multiple level calibrations in GCP.
- Add Methods and Sequences in GCP
- Perform Analyzer software upgrades
- Setup Chromatogram and Data Logging
- Add User Specific Alarms
- Add peaks, valves and programs by creating a Method in GCP.
- Create STATMON files

Topics

1. Advance Maxum System Overview
2. GCP Overview
3. Maxum Chromatograph
 - a. Alarms
 - b. Maintenance Menu in Detail
 - c. Calibration from the Color Touch Screen Control Interface Module (CIM)
 - d. Setup the Analyzer using the Color Touch Screen Control Interface Module (CIM)
4. GCP Methods Software
 - a. Multiple Level Calibrations
 - b. Method Development
 - c. Adding Validation Sequences
5. Advance Utilities
 - a. Use Statmon
 - b. Upgrading the analyzer
 - c. Data logging
6. GCP Analyzer and Application Table Editor
 - a. Adding hardware
 - b. Downloading/ Uploading AMD files
 - c. Adding user specified alarms
 - d. Auto Calibration
 - e. Time of Day and Frequency scheduling of programs
 - f. Programming DO Alarms
 - g. Programming AO Outputs
 - h. Add a Formula to a Result
 - i. Table Structure
 - j. Table Overview
7. Integrated Control Environment
 - a. Module Interaction
 - b. Normal Boot-up Procedure
 - c. System Configuration
8. Labs
 - a. Set up Analyzer using the CIM
 - b. Calibrate Analyzer using the CIM
 - c. Multi-Level calibration
 - d. Set up Chromatogram Logging
 - e. Set up Data Logging
 - f. Download and Upload AMD files
 - g. Create Method from scratch
 - h. Create sequence to run your new Method
 - i. Add a user specified alarm
 - j. Run a Validation sequence
 - k. Add a I2C IO card
 - l. Add an Analog Output to generate a 4-20ma signal
 - m. Create STATMON Table Entry