SIEMENS

Process Analyzers

Maxum HRVOC Operation and Maintenance Short

General Information

Course Code: PIA-PAMAXHR3
Length: 3 Days

Audience

This hardware course is intended for individuals responsible for maintaining the HRVOC Maxum Gas Chromatograph who have attended the Maxum II Operation and Maintenance Course and have experience with the Maxum II gas chromatograph. This class is for users who need to perform routine maintenance and calibration of the Maxum Gas Chromatograph used in HRVOC Flare and Cooling Tower Applications.

Prerequisites

- Maxum Operation Skills
- Maxum Operation with GCP Level 1

Profile

2.0 CEUs (Continuing Education Credits)

The course covers operation, maintenance, and calibration of the Maxum Gas Chromatograph HRVOC Application. Maxum II Gas Chromatographs with HRVOC Cooling Tower and Flare Gas applications and sample systems are used in this class for the labs and lectures.

Objectives

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

- Perform basic maintenance on the Maxum Hardware modules.
- Balance the carrier gas flows.
- Setup the analyzer valve and EPC times
- Configure an EZChrom Instrument
- Adjust peak times using EZChrom
- Calibrate the analyzer with EZChrom
- Backup and Restore the analyzer database

Topics

1. HRVOC Regulations Overview
   a. Siemens Flare HRVOC Solution
   b. Siemens Cooling Tower HRVOC Solution
2. Maxum Applet Maintenance
   a. Plumbing Configurations
   b. Setting Flows at Pressure
   c. Model 50
3. Maxum Detectors Maintenance
   a. Thermal Conductivity
   b. Flame Ionization
4. Sample Systems
   a. Flare Sample System
   b. Cooling Tower Sample System
5. Labs
   a. Set Flows per Plumbing Diagram
   b. Set Valve Switching Cooling Tower Application
   c. Set Valve Switching Flare Application
   d. Run Calibration Cycle
   e. Complete Analyzer Time Adjustments

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