

Maxum Edition II Operation & Maintenance Course (SC-C-MAX1)

Short Description

This course covers operation, maintenance and calibration of the Maxum Edition II Gas Chromatograph and operation of the Maxum Workstation including GC Portal.

Objectives

The course is intended for individuals responsible for maintaining and calibrating the Maxum Edition II Gas Chromatograph.

Content

Introduction to Chromatography

- Why can a blend of components be separated and detected as a combination of single peaks.
- Parameters for optional separation
- Different types of detectors
- Valveless 'LIVE' Column Switching

MAXUM - Physical Structure and Electronic Design

- Hardware modules, Electronic Enclosure, Analytical Oven
- Safety relevant guidelines and safe operation of the analyser in possible explosive atmospheres
- Maintenance

Networking

- Configure the PC
- Addresses, IP, LOOP, Unit
- Ethernet, DataNET
- CAN Boards

MAXUM workstation GC Portal

- MAXUM table editor
- HMI, online operation
- Calibration with HMI
- I/O tables, alarms, limits
- The *.amd file, backup and restore
- Development of a method
- Sequences
- Instrument Setup
- Peak tables and integration parameters
- Calibration with GCP

Documentation

- Data sheet, nomenclature
- Using the On-Line Manuals
- Alarm Descriptions

Valves and their Maintenance

- Model 50
- Model 11
- Siemens Liquid Injection Valve

Development of a Method

- Applets and use of detectors
- Column switching
- Electronic pressure regulators and flow adjustment

Detector Maintenance

- Thermal Conductivity Detector (TCD)
- Flame Ionisation Detector (FID)
- Flame Photometer Detector (FPD)

Prerequisites

It would be an advantage for attendees to have basic Chromatography skills.

Type

Face-to-face training

Duration

3 days

Language

en

Fee

2,470 GBP

