

Introduction to Process Gas chromatography

Course: GC01

Length: 2 - 5 days

Objective:

The participants will learn the basics of process gas chromatography by means of practical exercises and examples.

Contents:

- Introduction to gas analysis (deciding factors as when to use the methods, typical measuring points, technical terminology, dealing with test gases, different methods of measurement).
- Extraction and conditioning of sample gas (applications, optimized sample gas conditioning, tips on typical sources of errors and how to avoid them during the gas conditioning).
- Principles of measurement (setting up the equipment; equipment features using TCD, FID and FPD as examples).
- Basics of gas chromatography (separating properties during the different phases).

Targets:

On completion of the course the participants should be able to operate the analyzers and are familiar with how to set them up, the characteristics of the equipment and the principles of measurement. They are able to master the techniques of gas extraction and conditioning, to recognize sources of error and to implement measures to eliminate or reduce them.

Target group:

Planning, operating and maintenance staff who want to thoroughly familiarize themselves with process gas chromatography.

Requirements:

Basic knowledge of electrotechnology