Training 2016

To support manufacturing and research

Residual Gas Analysis & Mass Spectrometry

Réf. MS117 21 hours (3 days)

COURSE OBJECTIVES

To understand outgassing
To become familiar with mass spectroscopy, and especially with a residual gas analyser (RGA).
To acquire the knowledge of the limits of how to use a RGA
To learn how to analyse spectra in mass spectroscopy.

AUDIENCE

Technicians and engineers who use a residual gas analyser and who want to acquire an ease in understanding phenomenon under vacuum, depending on time and/or temperature, the limits of the use of a RGA and spectrum analysis.

INNOVATIVE TEACHING RESOURCES

Lectures and «hands-on» exercises.
Custom training manual.
Prior interview with the trainees possible in order to qualify their needs.
Multiple choice questions at the start and end of the training.
Training centers integrated with 40-30 workshops.
Maximum 6 persons per group.

MAIN TRAINERS

Michel THIAM: PhD in Physics (Strong Experience in Surface Physics and Surface Chemistry under UHV Conditions), from 40-30 Engineering Department.

DATE & LOCATION

November 23-25 – Grenoble (France)

For other dates, please, contact us.

Can be also held in your premises for a specific training.

PRICE per person

1450 € ex.VAT

We need 3 registrations to open a session.

PROGRAM

1- Outgassing

- Definition
- Physical chemistry phenomenon linked to outgassing
- Outgassing effects
- Thermal outgassing
- Not baked metallic materials
- Baked metallic materials
- Non-metallic materials (Elastomers, ceramics…)
- Outgassing Induced

2. Mass spectroscopy

- Theory
- Different kinds of mass spectroscopy
- Principle of a residual gas analyser (RGA):
- Functional units
- Spectrum interpretation
- Baking of a RGA: Care
- Existing equipment and their comparison
- Limits of the use of a RGA

3. Applications

-Humidity
-Organic contamination
-Spectrum analysis
-Temperature Programmed Desorption (TPD)

This training can be customised according to your work situations as well as the initial skills of the participants

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