



Glow Discharge Optical Emission Spectroscopy

Reference

GD1

Module 1

Duration: 4 sessions of 2h30 **Dates:** 9, 10, 11 and 12 April 2024 **Schedule:** 10 am to 12.30 pm (France time zone; UTC+2)

Prerequisites: dedicated to HORIBA

customers only.

Location: online via Teams

Modules 2

Duration: 2 days

Dates: 29 and 30 April 2024 Schedule: 9 am to 5 pm

Prerequisites: dedicated to HORIBA

customers only and to have completed

Module 1

Location: 14 Boulevard Thomas Gobert,

91120 Palaiseau - France

Price per participant

Module 1 only: 495 €
Modules 1 & 2 : 1650 €

Objectives

- Make full use of the software
- Know how to optimize instrument parameters and analysis modes
- Carry out measurements of various types of samples
- Master volume and surface calibration
- Know the accessories
- Know how to perform a diagnosis of the instrument

Learning methods

The trainer adapts the course program according to the questionnaires received. The group is 6 people maximum to promote practice and exchanges.

Certification

A diploma is delivered at the end of the course.

Course language

English



PROGRAM

Module 1 (Online Training on Microsoft Teams)

Overview of the GD technique, instrument and software:

- · Full command of the software
- · Operating in simulation mode
- · Export/Import. Data transfer
- · Examples of measurements and operating conditions
- · Principles of optics and Spectroscopy
- · GD plasma and interaction plasma/ samples
- · Pulsed mode and synchronized pulsed mode
- · Principles of calibration
- · Particularities of surface calibration
- · Samples selection
- · Principles of DIP (Differential Interferometry Profiling)
- · Various analysis modes
- · Accessories overview

Module 2 (Face-to-face training at HORIBA France Palaiseau site)

Functioning and use of the hardware and software:

- · Daily verification procedure
- · Analysis of different samples and data processing
- · Optimization of the instrument operating conditions
- · How to use the pulsed mode and the synchronous pulsed mode
- · How to use the monochromator and image mode
- · Calibration optimization

Presentation of specific functions and accessories:

- · UFS and other plasma gases
- · Plasma cleaning
- · DIP (Differential Interferometry Profiling)
- · Different accessories

Maintenance