

ICP-OES Complete Training

Reference

ICP4

Price

3 025€ per attendee

Duration

5 days

Dates

23-27 September 2024

Schedule

From 9 am to 5.00 pm

Maximum number of attendees

5 people

Registration deadline

23 August 2024

Location

14 Boulevard Thomas Gobert,
91120 Palaiseau - France

Prerequisites

Dedicated to HORIBA customers only and knowledge of the technique and equipment.

Who should attend

Users of HORIBA Scientific ICP-OES spectrometers.

Certification

A diploma is delivered at the end of the course.

Learning method

Theoretical presentation and instruments practice.

Course language

English

Objectives

- Theoretical and practical knowledge on ICP-OES spectrometers.
- Learn how to use the software (latest version used in the laboratory).
- Learn methodology for method development and major analytical parameters.
- Know how to set up an analytical strategy with an unknown sample.
- Interpret results.
- Follow the performances of the ICP-OES spectrometer over the time.
- Identify dysfunctions and their origins and solve these dysfunctions.



PROGRAM

Day 1

Theory:

- Theory of ICP-OES
- Principle and instrumentation
- Method development strategy
- Wavelength selection
- Optimization of parameters
- Spectral interferences
- Analytical performances

Day 2

Practical - Method creation and optimization:

- Method creation
- Optimization of gas flow
- Optimization of sheath gas
- Optimization of integration time

Day 3

Practical - Method creation and optimization:

- Method development
- Wavelength selection
- Semi-quantitative analysis.
- Slit selection

Day 4

Practical - Analytical performance:

- Background position
- Detection limit calculation
- Spectral interferences
- Matrix effect

Day 5

Analysis of unknown samples:

Result validation