

# Ellipsometry - Basic Level

## Reference

ELL1

## Price per attendee

For 2 days 1 210€

For 3 days 1 815€

## Duration

2 days + 1 day optional

## Dates

27-29 March and 11-13 September  
2024

## Registration deadline

27 February and 11 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

New users of HORIBA ellipsometers.

## Certification

A diploma is delivered at the end of  
the course.

## Learning method

Theoretical presentation and  
instrument practice.

## Course language

English

## Objectives

- Provides a thorough background  
in the basic ellipsometry theory  
and focus on modelling  
techniques with a large variety of  
hands-on sample analysis.
- Use of the ellipsometer and  
DeltaPsi2 software through a  
large variety of hands-on sample  
analysis.



## PROGRAM

### Day 1

#### Theory and Practical:

- Ellipsometry theory
- Instrumentation
- Overview of modelling process
- Description of main functions of DeltaPsi2 software & hands on the ellipsometer
- Procedure to check the system before to perform measurements
- Measurement and modelling of transparent films on opaque substrates

### Day 2

#### Practical Session & Software Use:

- Sample analysis of semi-absorbing thin films in monolayers and multilayers of opaque substrate
- EMA, roughness
- Sample analysis of glass substrate
- Sample analysis of semi-absorbing thin films on glass
- Sample analysis of absorbing films
- Dispersion formulae parameterization
- Sample analysis of thickness of non-uniform layers

### Day 3 (optional)

#### Practical Session with customer samples