

Metrology Basics

TRAINING COURSE

This course covers the main concepts of metrology and enables participants to understand the main aspects of the measurement process. The following aspects are covered in detail: terms and technologies, calibration certificates and verification reports, notion of calibration uncertainty, and internal or external calibration.

Reference: PRE.FOR.0003

Duration: 1 day (7 hours)

Audience: This course is designed for anyone wishing to improve their knowledge and approach regarding metrology.

Prerequisites: None.

TRAINING OBJECTIVES

Participants will learn how to:

- Understand International Vocabulary of Metrology (VIM).
- Understand different sensor technologies.
- Master calibration certificates and verification reports.

COURSE CONTENTS

1. Terms and technologies

- International Vocabulary of Metrology (VIM)
- Different sensor technologies
- International Temperature Scale of 1990 (ITS-90)
- Temperature metrology standards

2. Calibration certificates and verification reports

- Contents of a calibration certificate
- On-site verification
- Contents of a verification report

3. Notion of calibration uncertainty

- Components
- Laws
- Good practices according to GUM (Guide to the Expression of Uncertainty in Measurement)

4. Internal or external calibration

- Key points of in-sourcing
- Subcontracting and selection criteria

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TRAINING COURSE

TEACHING AND TECHNICAL RESOURCES

- Sharing experience.
- Case studies.
- Training materials.
- Specialized trainer.
- Computer(s) / video projector / screen / whiteboard.

ASSESSMENT AND EVALUATION

- Training at customer's site or at our offices, within company.
- Maximum 5 participants per training session.
- Individual quiz at the start and end of the course (with score analysis).
- Training certificate issued.
- Access terms and conditions: on quote.



SPECIAL ARRANGEMENTS

- Contact our training team (training@dicksondata.fr).

PRICING AND FURTHER INFORMATION

Training cost: 1 601.30 € (excl. taxes)

For any other information, please contact our Sales team (emeasales@dicksondata.fr).

OCEASOFT SAS (DICKSON) - 720 Rue Louis Lépine 34000 Montpellier - Siret : 42501418000052 is a training organization registered under the number 91340704234 with the Direction Régionale de l'Économie, de l'Emploi, du Travail et des Solidarités (DREETS) Occitanie.