

Measurement and sampling error calculation for quality assurance and quality control

Objective

Estimate overall errors for moisture and particle size distribution analyses

Intended audience

Process engineers, technicians concerned by material characterization (quality control, plant survey and site diagnostic)

Program

Measurements and their sources of uncertainty

- Measuring moisture content and particle size distribution
- Overview of the standards
- Origins of measurement uncertainty and variability

Estimate the measurement error

- Components of the total measurement error – application to moisture content and particle size distribution
- Weighing error calculation
- Sampling error for moisture
- Sampling error for particle size distribution
- Analytical error of size distribution proportions for a simple case
- Uncertainty range for a size distribution
- Measurement error for parameters such as mean size, d80 or d95, dispersion

Case studies

- Calculation of the total measurement error of the moisture content and particle size distribution for various materials and measurement methods
- Design of a sampling and measurement plan for moisture content and particle size distribution to meet tolerance requirements
- Design of a sampling plan for the size distribution measurement of a coarse material
- Case of stocks or material stream

Teaching methods

- Training is based on documents given to the trainees.
- Several real cases, using spreadsheet, illustrate the theoretical presentations.

Prerequisites

- Use of spreadsheet software (such as Microsoft Excel)
- Knowledge of methods for measuring moisture content and particle size distribution
- Basic knowledge of sampling issues

Duration

1 day

Registration fee

750 € (excl. taxes)

Dates

- February 6, 2020
- September 22, 2020

Venue

Orléans, France

Advantages

- Approach based on real cases
- Training in French or English

CASPEO could run all training courses at a date and at a location that suit you. On demand, courses could be customized to address your organisation's interests.

REGISTRATION FORM

To send back by e-mail or postal mail

Tel: +33 (0)2 38 64 31 96 - E-mail: info@caspeo.net

CASPEO - 3 Avenue Claude Guillemin - BP 36009 - 45060 ORLEANS CEDEX 2 - FRANCE

INFORMATION ABOUT THE TRAINING SESSION

Training session

Date

Price

How did you hear about it?

COMPANY INFORMATION

Name

Address

Zip code

City

Country

VAT No

(for European country)

PARTICIPANT INFORMATION

Name

Surname

Position

Phone

E-mail

Name

Surname

Position

Phone

E-mail

Date

Signature

For any cancellation, less than 10 days before the start of the training session, 50% of the price will be invoiced.