41 rue Garibaldi – 69006 LYON

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GÉNIE DES PROCÉDÉS

POWDER PROPERTIES AND ANALYTICAL METHODS- SESSION IN ENGLISH

OBJECTIFS

Understand powders to better control their behaviour and optimise their use in industrial processes.
This introductory training provides an understanding of powder properties and how to analyse them in order to better predict, control and optimise their behaviour in industrial processes. It links fundamental knowledge and analytical methods to improve processing efficiency, product quality and safety.

CONTENU PÉDAGOGIQUE

1. **Introduction to Powders**

- Definition of divided solids.
- How powders are produced (grinding, atomisation, precipitation, spray drying...).

2. **Key Properties of Powders**

- Particle size, shape, surface area, density, porosity.
- Functional properties: flowability, wettability, blendability, compressibility, granulation behaviour.
- Impact on processing performance (handling, mixing, compaction, milling).

3. **Analytical Methods**

- Laboratory characterisation: particle size distribution (sieving, laser diffraction, DLS), morphology, surface area (BET), flowability tests, density measurements.
- On-line measurements for real-time monitoring and process control (PAT approach).

4. **Safety Considerations**

- Explosivity and ATEX risks.
- Electrostatic charging and discharges.
- Toxicity and handling precautions.

DURÉE
2 days – 14 hours

SESSIONS
May 4 to 5 2026

FRAIS D'INSCRIPTION (DÉJEUNER INCLUS)
€ 1 590 € (Excl. VAT)

PRÉREQUIS & PUBLIC CONCERNÉ
Engineers, technicians and scientistss working in R&D, quality control or production.

Coordonnées

CPE Lyon Formation Continue

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