



CEMENT MANUFACTURING

Raw Materials and Industrial Processes in Cement Industry

DURATION

5 days

CONTACT HOURS

30

LEVEL

Intermediate

FEE PER DELEGATE

US\$1,500

The materials a cement plant consumes, their variability, and the processes that prepare them.

A cement plant is constrained by what is in its quarry. This week starts there: deposit assessment, reserve quality and the variability a plant has to absorb, then works through extraction, crushing, prehomogenisation and raw mix design. Corrective materials and alternative raw materials are covered practically, including the contaminant limits that decide whether a cheap material is actually cheap. The theme throughout is managing variability before it reaches the kiln.

Available as classroom, live online, in house.

Who it is for

Quarry and raw materials managers, process and quality engineers, geologists supporting cement operations, and procurement staff buying corrective and alternative materials.

What you will be able to do

- Assess a deposit for cement raw material suitability.
- Plan extraction to control chemical variability.
- Design a raw mix to hit the target moduli.
- Evaluate corrective and alternative materials including contaminants.
- Specify prehomogenisation and blending to the variability present.

The outline

DAY 1

The deposit

Limestone and clay quality requirements · Reserve estimation and quality modelling · Deleterious components and their limits

DAY 2

Extraction

Selective quarrying and grade control · Drilling, blasting and fragmentation for the crusher · Haulage and crusher feed consistency

DAY 3

Preparation

Crushing and size reduction · Prehomogenisation stockpiles and their effect · Moisture and drying

DAY 4

Mix design

Target moduli and the calculation · Corrective materials · Alternative raw materials and contaminant limits

DAY 5

Control

Online analysis and sampling · Blending silo performance · Managing a variable quarry

What you leave with

- A raw material quality assessment.
- A raw mix design with corrective material selection.
- A variability control plan from quarry to kiln feed.

Published dates

DATES	WHERE	FEE
23 to 27 November 2026	Dubai, United Arab Emirates	US\$1,500
30 November 2026 to 4 December 2026	Cape Town, South Africa	R15,000
7 to 11 December 2026	Port Louis, Mauritius	US\$1,500
14 to 18 December 2026	Nairobi, Kenya	US\$1,500

Fees are per delegate and cover all course materials and meals arranged by the delegate. Reg

Register or ask a question

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