



CEMENT MANUFACTURING

Advanced Process Technology of Cement Manufacturing

DURATION

5 days

CONTACT HOURS

30

LEVEL

Advanced

FEE PER DELEGATE

US\$1,500

Optimising an existing line: where the energy goes, where the capacity is lost, and what to change.

This week assumes the process is understood and goes after performance. It is built on measurement: a proper heat and mass balance, gas and solids flows established rather than assumed, and separator and mill efficiency calculated from samples. From that base it works through the levers, in the order they usually pay: false air, cooler efficiency, calciner combustion, separator tuning and alternative fuel substitution. Every recommendation is expected to be supported by a number.

Available as classroom, in house.

Who it is for

Process engineers and plant managers, production superintendents, energy managers, and technical staff responsible for plant performance.

What you will be able to do

- Build a heat and mass balance for a real line.
- Locate energy losses and rank them by recoverable value.
- Assess cooler, preheater and separator efficiency from measurement.
- Identify the bottleneck rather than the loudest complaint.
- Build an improvement case with figures behind it.

The outline

DAY 1

Measurement first

Gas and solids flow measurement · Sampling for balance work · Instrument reliability, and how much to trust a reading

DAY 2

Heat and mass balance

Setting the boundary · Building the balance and closing it · Reading the losses

DAY 3

Pyroprocessing efficiency

False air and its cost · Preheater and calciner performance · Cooler efficiency and recuperation

DAY 4

Grinding efficiency

Mill performance assessment · Separator efficiency and Tromp curves · Circulating load and its effect

DAY 5

Making the change

Bottleneck analysis · Alternative fuels and their process effects · Building and defending the investment case

What you leave with

- A heat and mass balance for your own line.
- A ranked loss register.
- An optimisation plan with expected savings quantified.

Published dates

DATES	WHERE	FEE
23 to 27 November 2026	Dar es Salaam, Tanzania	US\$1,500
30 November 2026 to 4 December 2026	Kampala, Uganda	US\$1,500
7 to 11 December 2026	Nairobi, Kenya	US\$1,500
14 to 18 December 2026	Dubai, United Arab Emirates	US\$1,500

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

Register or ask a question

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