GATI

CEMENT MANUFACTURING

Raw Material Preparation, Clinker Burning and Cement Grinding

DURATION	CONTACT HOURS	LEVEL	FEE PER DELEGATE
5 days	30	Intermediate	US$1,500

The three core process sections covered in sequence, with the interactions between them made explicit.

Raw preparation, burning and grinding are usually taught separately and run as one plant. This week covers all three in sequence and spends its time on the joins: how raw mix variability reaches the burning zone, how burning conditions change clinker grindability, and how clinker quality determines what the cement mill can produce. It suits somebody who has worked in one section and now has to understand or manage the others.

Available as classroom, live online, in house.

Who it is for

Production and process engineers moving between sections, shift managers and superintendents, technical services staff, and maintenance engineers with cross plant responsibility.

What you will be able to do

- Describe each of the three sections and its control targets.
- Trace how raw mix variability propagates downstream.
- Relate burning and cooling conditions to clinker grindability.
- Relate clinker properties to cement mill performance.
- Diagnose a problem across section boundaries.

The outline

DAY 1

Raw preparation

Quarry to kiln feed · Mix design and control · Homogenisation performance

DAY 2

Burning

Preheater, calciner and kiln · Burning zone control and free lime · Cooling and its effect on the clinker

DAY 3

Grinding

Clinker grindability · Circuit operation and product control · Additions and blended products

DAY 4

Interactions

Variability propagation · Volatile cycles across sections · Energy trade offs between sections

DAY 5

Diagnosis

Symptoms that present in the wrong section · Data needed to settle a cross section argument · Working a real case end to end

What you leave with

- An interaction map across the three sections.
- A cross section troubleshooting guide.
- A control target set that is consistent plant wide.

Published dates

DATES	WHERE	FEE
23 to 27 November 2026	Nairobi, Kenya	**US$1,500**
30 November 2026 to 4 December 2026	Dubai, United Arab Emirates	**US$1,500**
7 to 11 December 2026	Lagos, Nigeria	**US$1,500**
14 to 18 December 2026	Live online	**US$995**

Fees are per delegate and co
arranged by the delegate. Reg

Register or ask a question

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