



Tests Performed During Fabrication of Clinker and Cement

DURATION

5 days

CONTACT HOURS

30

LEVEL

Intermediate

FEE PER DELEGATE

R15,000

The test programme that runs alongside production, and what each result is actually for.

Production testing exists to make decisions, not to fill a logbook. This week goes through the tests performed at each stage, the decision each supports, the frequency that matches how fast the process can drift, and the precision of the method against the tolerance being controlled. It covers chemical and physical testing, online analysis, and the specialist methods such as microscopy and diffraction that resolve questions routine testing cannot.

Available as classroom, live online, in house.

Who it is for

Laboratory technicians and supervisors, quality and process engineers, production superintendents, and staff setting up a testing programme.

What you will be able to do

- Name the tests performed at each production stage and their purpose.
- Match test frequency to the rate the process can drift.
- Judge whether a method's precision suits the tolerance.
- Use online analysis correctly alongside laboratory testing.
- Apply specialist methods when routine testing cannot answer.

The outline

DAY 1

Raw side testing

Quarry and crusher sampling · Raw meal chemical control · Moisture and fineness

DAY 2

Kiln and clinker testing

Free lime and its frequency · Clinker chemistry and phase estimation · Litre weight and nodule assessment

DAY 3

Cement testing

Fineness and particle size distribution · Strength, setting and soundness · Sulphate and loss on ignition

DAY 4

Online and automated

Cross belt and online analysers · Automated sampling and laboratories · Calibration and drift

DAY 5

Specialist methods

Optical microscopy of clinker · X ray diffraction and quantitative phase analysis · Calorimetry, and when it is worth running

What you leave with

- A testing schedule by stage, with the decision each test supports.
- A method precision review against control tolerances.
- A plan for when to escalate to specialist analysis.

Published dates

DATES	WHERE	FEE
23 to 27 November 2026	Durban, South Africa	R15,000
30 November 2026 to 4 December 2026	Cairo, Egypt	US\$1,500
7 to 11 December 2026	Port Louis, Mauritius	US\$1,500
14 to 18 December 2026	Gaborone, Botswana	R15,000

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

Register or ask a question

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