



Cement Grinding and Milling Systems: Process, Operation and Troubleshooting

DURATION

5 days

CONTACT HOURS

30

LEVEL

Intermediate

FEE PER DELEGATE

R15,000

Operating and troubleshooting cement grinding systems, across ball mills, vertical mills and roller presses.

Cement grinding is the largest single electrical consumer on most plants and the place where product quality is finally set. This week covers the system types in use, their operating logic and where each struggles, then goes to operation: stable running, product changeovers, temperature and gypsum dehydration, and the grinding aids that help and the ones that mostly cost money. Troubleshooting is organised by symptom, because that is how problems present.

Available as classroom, live online, in house.

Who it is for

Grinding system operators and supervisors, process and energy engineers, maintenance planners for mill systems, and quality staff.

What you will be able to do

- Compare ball mill, vertical roller mill and roller press systems honestly.
- Operate a system stably through changeovers and load changes.
- Control mill temperature and gypsum dehydration.
- Assess specific energy consumption and improve it.
- Work from a symptom back to its cause.

The outline

DAY 1

Systems

Ball mill circuits · Vertical roller mills · Roller presses and combined systems · Choosing between them for a given product

DAY 2

Operation

Stable operation and the levers available · Product changeovers · Feed composition and its effect on grinding

DAY 3

Temperature and sulphate

Mill temperature control · Gypsum dehydration and its consequences · Water injection and cooling

DAY 4

Energy

Specific energy consumption benchmarking · Grinding aids and their real effect · Where energy is actually lost

DAY 5

Troubleshooting

Vibration in vertical mills · Blaine and strength mismatch · Throughput loss, and working back to its cause

What you leave with

- A system performance assessment.
- A changeover procedure that protects quality.
- A symptom based troubleshooting guide.

Published dates

DATES	WHERE	FEE
23 to 27 November 2026	Durban, South Africa	R15,000
30 November 2026 to 4 December 2026	Cape Town, South Africa	R15,000
7 to 11 December 2026	Cairo, Egypt	US\$1,500
14 to 18 December 2026	Kampala, Uganda	US\$1,500

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

Register or ask a question

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