



Clinker Grinding, Milling and Separation Cycle Techniques

DURATION

5 days

CONTACT HOURS

30

LEVEL

Intermediate

FEE PER DELEGATE

US\$1,500

The closed grinding circuit: mill, separator and recirculation working as one system.

A grinding circuit is a loop, and tuning any part of it without the rest is how plants end up grinding harder for the same product. This week treats mill and separator together: breakage and classification, circulating load and what it is actually telling you, Tromp curves read properly, and the ball charge and liner decisions that set what the mill can do. Troubleshooting works from product quality and power draw back to the circuit condition.

Available as classroom, live online, in house.

Who it is for

Grinding and process engineers, mill operators and supervisors, maintenance staff responsible for mill internals, and quality staff working on fineness.

What you will be able to do

- Describe breakage and classification as one circuit.
- Calculate and interpret circulating load.
- Read a Tromp curve and act on it.
- Specify ball charge, grading and liner configuration.
- Diagnose a circuit from product and power data.

The outline

DAY 1

Breakage

Comminution mechanisms in a tube mill · Energy and fineness relationships · Grindability and its measurement

DAY 2

The mill

Compartments, diaphragms and liners · Ball charge, grading and filling degree · Ventilation, temperature and water injection

DAY 3

Separation

Separator types and generations · Tromp curve, cut size and bypass · Separator tuning

DAY 4

The circuit

Circulating load and its interpretation · Sampling a circuit properly · Mass balance around the loop

DAY 5

Troubleshooting

Coarse product and over grinding · Low throughput at normal power · Coating, agglomeration and grinding aids

What you leave with

- A circuit audit for one mill.
- A Tromp curve from your own sampling.
- A ball charge and separator adjustment plan.

Published dates

DATES	WHERE	FEE
23 to 27 November 2026	Cairo, Egypt	US\$1,500
30 November 2026 to 4 December 2026	Dubai, United Arab Emirates	US\$1,500
7 to 11 December 2026	Accra, Ghana	US\$1,500
14 to 18 December 2026	Cape Town, South Africa	R15,000

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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