



MANUFACTURING AND PRODUCTION

Concrete Block and Paver Production

3 day course

Classroom, online or in-house

Course overview

A block plant sells a dimension and a strength, and both are produced by a machine that compacts a nearly dry mix in under a minute, which leaves almost no margin for a mix that is wrong. This course covers running that machine well. Delegates work through aggregate grading for zero slump mixes and why the fines content decides both compaction and surface finish. Cement content and the strength it buys are addressed against cost. Moisture control is treated as the central variable, since a mix that is too dry will not compact and one that is too wet will slump on demoulding. Machine operation follows: vibration, compaction pressure, cycle time and mould condition. Face mix and coloured pavers are covered, including pigment dosing and colour consistency between batches. Curing is addressed across yard, chamber and steam methods. Dimensional tolerance and strength testing follow. Efflorescence and its causes are covered. The course closes on cubing, handling damage and yard stock management.

What you will learn

- Grade aggregate for zero slump mixes and control fines
- Balance cement content against strength and cost
- Control moisture so blocks compact and hold shape on demoulding
- Set vibration, compaction pressure and cycle time
- Produce coloured pavers with consistent pigment dosing
- Cure by yard, chamber or steam methods
- Test dimension and strength, and prevent efflorescence and handling damage

Who should attend

- Block plant operators and supervisors
- Quality staff testing blocks and pavers
- Production managers at masonry product plants
- Batching staff on block machines
- Entrepreneurs operating block yards

Course outline

- 01 A dry mix compacted in under a minute
- 02 Aggregate grading and fines content
- 03 Cement content, strength and cost
- 04 Moisture as the central variable
- 05 Vibration, compaction pressure and cycle time
- 06 Face mix, pigments and colour consistency
- 07 Yard, chamber and steam curing
- 08 Tolerance, strength testing, efflorescence and handling

Upcoming dates

Dates	Venue	Format	Fee per delegate
9 to 11 November 2026	Online	Online	R6,500
3 to 5 March 2027	Mbabane, Eswatini	Classroom	R14,950
8 to 10 March 2027	Durban, South Africa	Classroom	R14,950



Fees and how to register

This 3 day course is **R6,500** per delegate online, **R14,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 995** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriscience.co.za, or WhatsApp us on **+27 63 479 1136**.

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