



MANUFACTURING AND PRODUCTION

Fertiliser Blending, Granulation and Bagging

3 day course

Classroom, online or in-house

Course overview

A blending plant sells a nutrient ratio in a bag, and the farmer who spreads it gets whatever separated on the way there, which is why segregation matters more in this industry than almost any other. This course works against segregation. Delegates work through nutrient content, straight materials and the calculation that turns a target ratio into a raw material recipe. Raw material properties are covered, particularly particle size distribution, since blending materials of different size guarantees separation in handling. Compatibility is addressed, including the combinations that cake, absorb moisture or react. Bulk blending operations follow across batch and continuous plants, with weighing accuracy and mixing time. Granulation is covered as the alternative that eliminates segregation, including drum and pan granulation, binder use, drying and screening. Coating and conditioning for storage are addressed. Bagging, weight control and moisture protection follow. Quality control and nutrient verification are covered. The course closes on storage, on caking and on farmer complaints.

What you will learn

- Convert a target nutrient ratio into a raw material recipe
- Match particle size distributions to prevent segregation
- Recognise combinations that cake, absorb moisture or react
- Operate batch and continuous bulk blending with accurate weighing
- Granulate by drum or pan and control drying and screening
- Coat and condition product for storage
- Bag to correct weight, verify nutrient content and resolve complaints

Who should attend

- Fertiliser blending plant operators and supervisors
- Quality control staff verifying nutrient content
- Production managers at fertiliser plants
- Agronomists specifying blends
- Warehouse staff storing and handling fertiliser

Course outline

- 01 Whatever separated on the way there
- 02 Nutrient ratios and recipe calculation
- 03 Raw material particle size distribution
- 04 Compatibility, caking and moisture
- 05 Batch and continuous bulk blending
- 06 Drum and pan granulation
- 07 Drying, screening, coating and conditioning
- 08 Bagging, weight control, verification and complaints

Upcoming dates



Dates	Venue	Format	Fee per delegate
7 to 9 October 2026	Online	Online	R6,500
2 to 4 December 2026	Cape Town, South Africa	Classroom	R14,950
14 to 16 December 2026	Casablanca, Morocco	Classroom	USD 995
8 to 10 February 2027	Johannesburg, 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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