



MANUFACTURING AND PRODUCTION

Agrochemical Formulation and Packaging

3 day course

Classroom, online or in-house

Course overview

A crop protection product has to deliver a small mass of active ingredient onto a leaf, remain stable in a hot store for two seasons and be handled safely by a farmer who may not read the label. This course covers formulating for all of that. Delegates work through active ingredient properties and the formulation types they permit: emulsifiable concentrates, suspension concentrates, wettable powders, water dispersible granules and capsule suspensions. Adjuvants, surfactants and the wetting and spreading they provide are covered. Manufacturing follows across milling, dispersion, emulsification and granulation, with particle size as the property that governs performance. Physical stability testing is addressed, including suspensibility, emulsion stability and heat storage. Container selection and closure integrity are covered. Labelling and regulatory registration requirements follow. Operator exposure and safe handling are addressed directly. Effluent and container disposal are covered. The course closes on batch quality control and on investigating a field performance complaint.

What you will learn

- Match formulation type to the active ingredient's properties
- Select adjuvants and surfactants for wetting and spreading
- Manufacture by milling, dispersion, emulsification and granulation
- Control particle size as the driver of performance
- Test physical stability including suspensibility and heat storage
- Select containers and meet labelling and registration requirements
- Control operator exposure, manage container disposal and investigate complaints

Who should attend

- Agrochemical formulation chemists
- Production supervisors at crop protection plants
- Quality control staff in agrochemical manufacture
- Regulatory staff registering crop protection products
- Technical staff supporting agricultural customers

Course outline

- 01 A small mass onto a leaf
- 02 Active properties and formulation types
- 03 Concentrates, powders and dispersible granules
- 04 Adjuvants, wetting and spreading
- 05 Milling, dispersion and granulation
- 06 Particle size and performance
- 07 Physical stability and heat storage testing
- 08 Containers, labelling, exposure control and complaints

Upcoming dates

Dates	Venue	Format	Fee per delegate
28 to 30 September 2026	Lagos, Nigeria	Classroom	USD 995
14 to 16 October 2026	Online	Online	R6,500
8 to 10 March 2027	Nairobi, Kenya	Classroom	USD 995



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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