



AGRICULTURE AND AGRIBUSINESS

Integrated Pest and Disease Management

3 day course

Classroom, online or in-house

Course overview

Spraying on a calendar treats pests that are not there and misses the ones that are, and it is the fastest route to resistance, residue violations and a bill that exceeds the damage prevented. This course replaces the calendar with a decision rule. Delegates work through pest and disease identification, including the damage symptoms that are commonly misattributed. Life cycles and the vulnerable stage of each pest follow. Scouting is covered practically: sampling pattern, frequency, and recording that supports a decision. Economic thresholds are addressed as the basis for spraying or not spraying. Cultural, biological and chemical controls are covered in that order, since chemistry used first is chemistry wasted. Pesticide selection follows, including mode of action groups, rotation for resistance management and the label as a legal document. Application is addressed through sprayer calibration, nozzle choice, water volume and drift. Pre harvest intervals and residue compliance are covered. The course closes on beneficial insects, on record keeping and on responding to a failed spray.

What you will learn

- Identify pests and diseases and avoid misattributed damage
- Target the vulnerable stage of a pest's life cycle
- Scout systematically and record what supports a decision
- Apply economic thresholds to the spray decision
- Use cultural and biological control before chemistry
- Rotate modes of action to manage resistance and follow the label
- Calibrate application, respect pre harvest intervals and protect beneficials

Who should attend

- Agronomists and crop protection advisers
- Farm managers and spray operators
- Extension officers advising on pest control
- Agrochemical company technical staff
- Quality staff managing residue compliance

Course outline

- 01 Spraying a calendar instead of a field
- 02 Identification and misattributed damage
- 03 Life cycles and vulnerable stages
- 04 Scouting method and records
- 05 Economic thresholds
- 06 Cultural and biological control first
- 07 Mode of action, resistance and the label
- 08 Calibration, drift, pre harvest intervals and spray failures

Upcoming dates



Dates	Venue	Format	Fee per delegate
28 to 30 October 2026	Pretoria, South Africa	Classroom	R14,950
25 to 27 January 2027	Maputo, Mozambique	Classroom	USD 995
3 to 5 February 2027	Mbabane, Eswatini	Classroom	R14,950
10 to 12 March 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**.

AfriScience Group | +27 61 536 6531 | info@afriScience.co.za | Pretoria, Gauteng, South Africa