



## EMERGING TECHNOLOGIES TRAINING

# Smart Agriculture and Precision Farming

3 day course

Classroom, online or in-house

## Course overview

Precision agriculture promises to apply water, fertiliser and chemicals only where they are needed, and it delivers that on farms with the data, connectivity and equipment to act on a recommendation, which is a real constraint across much of Africa. This course covers what works. Delegates work through soil and yield mapping, remote sensing and the indices used to assess crop condition, and variable rate application where the equipment permits it. Sensing for irrigation scheduling is covered, since water is usually the binding constraint. Livestock monitoring and traceability follow. Data platforms, connectivity and the practical realities of a farm without reliable network are addressed. The course closes on evaluating a technology investment against the farm's actual limiting factor.

## What you will learn

- Build soil and yield maps and interpret their variability
- Apply remote sensing and vegetation indices to crop condition
- Implement variable rate application within equipment limits
- Schedule irrigation using soil and weather sensing
- Apply monitoring and traceability to livestock operations
- Work with data platforms under unreliable connectivity
- Evaluate an investment against the farm's actual limiting factor

## Who should attend

- Farm managers and agronomists
- Agricultural extension and advisory staff
- Agribusiness technical and operations personnel
- Development programme staff in agriculture
- Suppliers of agricultural technology and equipment

## Course outline

- 01 Recommendations you can act on
- 02 Soil and yield mapping
- 03 Remote sensing and vegetation indices
- 04 Variable rate application
- 05 Irrigation scheduling and water constraint
- 06 Livestock monitoring and traceability
- 07 Data platforms and connectivity realities
- 08 Evaluating investment against the limiting factor

## Upcoming dates

| Dates                 | Venue              | Format    | Fee per delegate |
|-----------------------|--------------------|-----------|------------------|
| 28 to 30 October 2026 | Harare, Zimbabwe   | Classroom | USD 995          |
| 2 to 4 December 2026  | Online             | Online    | R6,500           |
| 25 to 27 January 2027 | Gaborone, Botswana | Classroom | R14,950          |
| 29 to 31 March 2027   | Lusaka, Zambia     | 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](http://www.afrisciencegroup.com), email [info@afriscience.co.za](mailto:info@afriscience.co.za), or WhatsApp us on **+27 63 479 1136**.

AfriScience Group | +27 61 536 6531 | [info@afriscience.co.za](mailto:info@afriscience.co.za) | Pretoria, Gauteng, South Africa