



EMERGING TECHNOLOGIES TRAINING

Drones and Unmanned Aerial Systems for Industry

3 day course

Classroom, online or in-house

Course overview

Aerial survey has become cheap enough to run weekly rather than annually, which changes what mines, farms, utilities and construction sites can measure, and it comes with an aviation regulator who has views about all of it. This course covers both sides. Delegates work through platform and sensor selection for a given task, from photogrammetry through multispectral to thermal and lidar, and flight planning including ground control and accuracy expectations. Data processing into orthomosaics, models and volumes is covered. The regulatory framework is addressed in full: licensing, operator certification, approvals and the restrictions that apply. Safety and airspace risk follow. The course closes on integrating output into engineering and management systems.

What you will learn

- Select platform and sensors for a given survey task
- Plan a flight including ground control and accuracy expectations
- Process imagery into orthomosaics, models and volume calculations
- Meet licensing, certification and approval requirements
- Operate within airspace restrictions and manage flight risk
- Assess data quality and know the limits of the output
- Integrate results into engineering and management systems

Who should attend

- Surveyors and geospatial staff
- Mining, construction and agricultural technical staff
- Utility and pipeline inspection teams
- Environmental monitoring personnel
- Managers evaluating aerial survey capability

Course outline

- 01 Weekly survey instead of annual
- 02 Platforms and sensor selection
- 03 Photogrammetry, multispectral, thermal and lidar
- 04 Flight planning and ground control
- 05 Processing into models and volumes
- 06 Regulation, licensing and approvals
- 07 Airspace, safety and risk
- 08 Data quality limits and system integration

Upcoming dates

Dates	Venue	Format	Fee per delegate
23 to 25 September 2026	Online	Online	R6,500
9 to 11 November 2026	Cape Town, South Africa	Classroom	R14,950
9 to 11 December 2026	Lusaka, Zambia	Classroom	USD 995
1 to 3 February 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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