



EMERGING TECHNOLOGIES TRAINING

Data Science and Big Data Analytics Foundations

3 day course

Classroom, online or in-house

Course overview

Organisations are accumulating transactional, customer and operational data faster than they are building anybody able to use it, and the first hire often spends a year cleaning data rather than analysing it. This course covers the whole workflow honestly. Delegates work through problem framing and translating a business question into something analysable, data acquisition and the profiling that reveals what you actually have. Cleaning and preparation are given the weight they occupy in real work. Exploratory analysis and the statistics needed to avoid reading noise as signal follow. Modelling is covered at foundation level: the main algorithm families, training and validation, and why a model that scores well can still be useless. Communicating a result to a non technical audience is practised. The course closes on reproducibility and on deployment realities.

What you will learn

- Translate a business question into an analysable problem
- Acquire and profile data to establish what you actually have
- Clean and prepare data, which is most of the work
- Explore data and avoid reading noise as signal
- Apply the main algorithm families with training and validation
- Recognise a model that scores well and is still useless
- Communicate results and make work reproducible

Who should attend

- Business analysts
- Data analysts
- IT professionals
- Planning and strategy staff
- Operations managers

Course outline

- 01 A year spent cleaning rather than analysing
- 02 Problem framing
- 03 Data acquisition and profiling
- 04 Cleaning and preparation
- 05 Exploratory analysis
- 06 Statistics that prevent reading noise
- 07 Algorithm families, training and validation
- 08 Communicating results, reproducibility and deployment

Upcoming dates

Dates	Venue	Format	Fee per delegate
12 to 14 October 2026	Durban, South Africa	Classroom	R14,950
30 December 2026 to 1 January 2027	Online	Online	R6,500
8 to 10 February 2027	Johannesburg, South Africa	Classroom	R14,950
24 to 26 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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