



EMERGING TECHNOLOGIES TRAINING

Understanding Blockchain

3 day course

Classroom, online or in-house

Course overview

A working, non technical grounding in what a blockchain actually is, what it does well, and the far larger set of problems it does not solve. Delegates learn how a distributed ledger reaches agreement without a central authority, what a consensus mechanism costs in energy and speed, how public and permissioned networks differ, and where a conventional database would be the better answer. The course deliberately spends as much time on failure and limitation as on capability, because the commonest expensive mistake in this field is adopting the technology for a problem that did not need it. Delegates leave able to interrogate a blockchain proposal rather than take it on trust.

What you will learn

- Explain what a distributed ledger is and how a network agrees on its contents
- Compare the main consensus mechanisms and the trade-offs each makes
- Distinguish public, private and permissioned networks and their governance implications
- Identify the characteristics of a problem that genuinely suits a blockchain
- Recognise where a conventional database is the cheaper and better answer
- Interrogate a vendor proposal and test the claims made for it

Who should attend

- Managers and executives assessing blockchain proposals
- Business analysts and project managers
- Risk, audit and compliance professionals
- Public sector officials evaluating digital initiatives
- Anyone needing a grounded view of the technology without the marketing

Course outline

- 01 What a blockchain is: blocks, hashes, chains and immutability
- 02 Reaching agreement without a central authority
- 03 Consensus mechanisms and what each costs in energy, speed and finality
- 04 Public, private and permissioned networks, and who governs them
- 05 Smart contracts: what they are, and what they cannot enforce
- 06 Cryptocurrency, tokens and the distinction from the underlying ledger
- 07 Where blockchain genuinely fits, and where a database wins
- 08 Interrogating a proposal: the questions that expose a weak case

Upcoming dates

Dates	Venue	Format	Fee per delegate
2 to 4 September 2026	Online	Online	R7,500
6 to 8 September 2026	Pretoria, South Africa	Classroom	R11,995
31 October to 2 November 2026	Online	Online	R7,500
10 to 12 November 2026	Kampala, Uganda	Classroom	R11,995

Fees and how to register

Online **from R6,500** per delegate, classroom **from R11,995** per delegate, 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@afri-science.co.za, or WhatsApp us on **+27 63 479 1136**.

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