



EMERGING TECHNOLOGIES TRAINING

Edge Computing and Industrial Data Architecture

3 day course

Classroom, online or in-house

Course overview

Industrial sites generate more data than they can economically ship anywhere, and connectivity in remote African operations is neither cheap nor reliable, which makes processing close to the source an architectural necessity rather than a preference. This course covers designing for that. Delegates work through the case for edge processing including latency, bandwidth and autonomy when the link drops, edge hardware and its environmental constraints, and the split of workload between edge, site and central systems. Data reduction, buffering and eventual consistency are covered. Managing software across many distributed devices is addressed, since deployment and patching become the hard problem. The course closes on resilience and on integrating edge output with enterprise systems.

What you will learn

- Make the case for edge processing on latency, bandwidth and autonomy
- Select edge hardware for the environmental conditions present
- Split workload between edge, site and central systems
- Design data reduction, buffering and store and forward behaviour
- Manage software deployment and patching across distributed devices
- Design for a connectivity link that drops regularly
- Integrate edge output with enterprise systems

Who should attend

- Operational technology and automation engineers
- IT architects supporting industrial sites
- Control and instrumentation staff
- Engineers at remote and poorly connected operations
- Technical managers planning data infrastructure

Course outline

- 01 More data than the link can carry
- 02 The case for edge processing
- 03 Edge hardware and environmental constraints
- 04 Workload split across edge, site and centre
- 05 Data reduction and buffering
- 06 Operating with an unreliable link
- 07 Distributed software deployment and patching
- 08 Resilience and enterprise integration

Upcoming dates

Dates	Venue	Format	Fee per delegate
21 to 23 October 2026	Online	Online	R6,500
16 to 18 December 2026	Maseru, Lesotho	Classroom	R14,950
6 to 8 January 2027	Harare, Zimbabwe	Classroom	USD 995
25 to 27 January 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, email info@afriScience.co.za, or WhatsApp us on **+27 63 479 1136**.

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