



ENGINEERING AND TECHNICAL TRAINING

Distributed Control Systems Operation and Configuration

5 day course

Classroom, online or in-house

Course overview

A distributed control system is the operating environment for the whole plant, and the difference between a well configured system and a poorly configured one shows up during upsets. This course covers architecture, configuration and operation. Delegates work through system and network architecture, controller and input output configuration, graphics and operator interface design, historian and trending, alarm rationalisation, and the redundancy and failover behaviour that determines what happens when part of the system fails. Attention is given to operator interface design as a safety matter, and to the management of change discipline that keeps a configuration trustworthy over the life of the plant.

What you will learn

- Describe distributed control system architecture, networks and redundancy
- Configure controllers, input output and control modules
- Design operator graphics that support decision making during an upset
- Configure historian, trending and reporting
- Rationalise alarms and reduce operator load
- Explain failover behaviour and what happens when a component fails
- Apply management of change to system configuration

Who should attend

- Control and instrumentation engineers and technicians
- Automation and systems engineers
- Panel operators and shift supervisors
- Maintenance staff supporting control systems
- Project engineers on control system upgrades

Course outline

- 01 System architecture, networks and redundancy
- 02 Controller and input output configuration
- 03 Control module configuration and standard blocks
- 04 Operator interface design as a safety consideration
- 05 Historian, trending and reporting
- 06 Alarm rationalisation and operator load
- 07 Failover, degraded operation and recovery
- 08 Management of change and configuration control

Upcoming dates

Dates	Venue	Format	Fee per delegate
2 to 6 November 2026	Pretoria, South Africa	Classroom	R19,950
9 to 13 November 2026	Lagos, Nigeria	Classroom	USD 1,325
28 December 2026 to 1 January 2027	Kampala, Uganda	Classroom	USD 1,325
18 to 22 January 2027	Online	Online	R8,500



Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 1,325** 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@afri-science.co.za, or WhatsApp us on **+27 63 479 1136**.

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