



ENGINEERING AND TECHNICAL TRAINING

Alarm Management and Operator Interface Design

3 day course

Classroom, online or in-house

Course overview

Alarm systems are configured a point at a time over years until an operator receives more alarms in an upset than any person could read, which is how a system meant to direct attention becomes the thing preventing it. This course covers fixing that. Delegates work through alarm philosophy and what actually qualifies as an alarm, rationalisation of an existing system and the discipline of removing alarms that require no action, and prioritisation that means something. Performance measurement follows, including alarm rate in steady state and during upset, standing alarms and the worst actor list. Advanced techniques including shelving, suppression and state based alarming are covered. Operator interface design is addressed: hierarchy, greyscale convention and the displays that show a process condition at a glance.

What you will learn

- Write an alarm philosophy defining what qualifies as an alarm
- Rationalise an existing system and remove alarms requiring no action
- Prioritise alarms so priority carries meaning
- Measure alarm rate in steady state and during upset
- Address standing alarms and worst actors
- Apply shelving, suppression and state based alarming
- Design operator displays that show condition at a glance

Who should attend

- Control and instrumentation engineers
- Process and operations engineers
- Panel operators and shift supervisors
- Process safety practitioners
- Systems integrators configuring control systems

Course outline

- 01 A system that prevents attention
- 02 Alarm philosophy and what qualifies
- 03 Rationalising an existing system
- 04 Prioritisation that carries meaning
- 05 Performance measurement
- 06 Standing alarms and worst actors
- 07 Shelving, suppression and state based alarming
- 08 Operator display design and hierarchy

Upcoming dates

Dates	Venue	Format	Fee per delegate
21 to 23 October 2026	Windhoek, Namibia	Classroom	R14,950
23 to 25 November 2026	Online	Online	R6,500
14 to 16 December 2026	Pretoria, South Africa	Classroom	R14,950
21 to 23 December 2026	Durban, South Africa	Classroom	R14,950



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**.

AfriScience Group | +27 61 536 6531 | info@afriScience.co.za | Pretoria, Gauteng, South Africa