Alarm Systems Management Workshop (1 day)

Alarm systems all too often suffer a proliferation of alarms that are both badly configured and incorrectly prioritised. They invariably contain far too many useless alarms which cloud the visibility of an operator. Poor alarm configuration leads to poor operator response with the consequences of excessive loss of production as a minimum and a significant probability of a loss of plant integrity.

This Alarm Systems Management Workshop will provide an introduction to alarm systems based on the following standards:

- *EEMUA Publication 191 Edition 3, 2013 – 'Alarm Systems- A Guide to Design, Management and Procurement'*
- ISA standard: *ANSI/ISA – 18.2 – 2009 'Management of Alarm Systems for the Process Industries'.*
- IEC standard: *IEC 62682 – 2014 (based on ISA 18.2)*

Who should attend?

Engineers involved in the configuration of alarm systems in the process control and emergency shutdown environments.

Objectives

The workshop will cover alarm system lifecycle including, alarm philosophy, the principles of alarm system design, procurement and implementation. It will also cover alarm performance metrics and the structure for managing and implementing an alarm improvement programme. Exercises will be used to enhance understanding and these are based on examples taken from practical experience.

The course content includes:

- The alarm system lifecycle
- What represents an alarm system
- The role of the operator
- The key design principles
- What to alarm
- Types of alarm
- Risk assessment
- Risk reduction
- The selection of alarm settings
- Alarm prioritisation methods
- Reliability
- Operability
- Prioritisation
- Alarm rationalisation
- Implementation issues
- Alarm displays and audible warnings
- Training

- Testing
- Measuring performance
- Managing an improvement programme
- Alarm system procurement
- EXERCISES

The workshop will use numerous practical examples and team exercises drawn from real life experiences.