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## Alarm Management Date: View Online -- Venue: View Online -- Fee: £5,000

**Overview:**

The simplicity related to the creation of Distributed Control System (DCS) alarms has led to a high abundance of DCS and removed any requirement to limit the number of these alarms. Alarm operators as a consequence must now deal with more alarms then they are capable of monitoring.

Alarm System Management (ASM) is a system and study that identifies which alarms are redundant, those that are set to the incorrect value and the ability to improve these systems and procedures on a wider scale.

When alarm systems are poorly managed and no agreed policy has been put in place, situations arise where a large number of alarms can be incorrectly set off and can divert the operators attention from major relevant alarm signals.

**Coverage:**

* Learn Alarm Management in a simple non-technical way
* Plan and apply the procedures required for improving alarm management within your organisation
* Analyse the performance of the alarm system using a variety of the latest alarm management techniques
* How to improve the performance and safety of the plant
* Appraise the readiness of the operators promptness and trained ability

**Objectives**

* Improve operation effectiveness through the use of the latest techniques, protocol and procedures in Alarm Management
* Analyse the best Alarm Management strategies based on past successful solutions
* Review past case studies to understand the implications of poor alarm performance
* Understand the methods available for alarm performance measurement
* How to implement an effective emergency response systems in case of failed alarm system

**How this helps your organisation?**

* Identify possible causes for false alarms
* Improve processes
* Identify abnormal situations and react accordingly
* Reduce risk
* Reduce environmental damage
* Reduce commercial loss
* Protect organisation reputation

## How this helps you personally?

* Develop an effective methodology for communicating within the workplace
* Create Action Plans for use in all aspects of your skillsets
* Learn to sell your ideas to senior management
* Evaluate your campaigns properly and communicate its results to your management to ensure you are efforts are recognised.
* To build confidence and mastery through personal coaching and advice

**Course Structure**

**Introduction**

* The ideology behind Alarm Management
* Justifications for Alarm Management and it’s requirements
* Guidance document EEMUA 191
* The definition of systems
* Real Life Case Study – Milford Haven Texaco Refinery (1994)
* Project Planning
  + Benchmarking
  + Assessment techniques
  + Alarm Analysis
  + The ideology of Alarm Management
  + Executing the Plan
  + Functional definitions of systems

**Alarm Management Fundamentals**

* Assigning individual and team objectives
* Managing the improvement process
* Reviewing the alarm system and regulating modifications
* Alarm Profileration
* Use of alarms, control and protection
* Hazards and its contribution to risk
* ‘no blame’ reporting and the role of the operator in alarm management
* Increasing plant production through the use of alarm management
* Real Life Case Study & Video: Piper Alpha

**Performance Measurement**

* The requirement of human factors within alarm systems
* International Standard IEC61508
* How to improve the procedure of the operator
* How to work with alarms that are not wanted
* The logical processing of alarms and alarm systems
* The conflict between different organisational objectives
* Real Life Case Study & Video – Union Carbide (Dow Chemicals)

**Evaluation & Legislative Procedure**

* Identifying issues with the current alarm systems
* Identify problem areas, number of alarms, dealing with alarm flooding
* Legislative requirements
* Physical Assessment Tree
* Evaluating the preparedness of the plant and organisation
* Alerting staff: Communication & Warning analysis
* Creating and monitoring emergency operation procedures
* Identifying operators, control room and emergency response stress levels
* Real Life Case Study: BP Texas (2005), Alaska (2006), Gulf of Mexico (2010)

**Damage Limitation & Emergency Procedures**

* Departmental responsibilities
* Emergency response team objectives
* On site commander objectives
* Creating safety drill practice
* Evacuation procedures

**Course Dates:** Weekly

**Venue:** View online

**Address:** Radisson Hotel

**Fee:** £5,000