TRAINING COURSE

Effective alarm management
The practitioners course

26th - 28th February 2019 - Leeds, Met Hotel
15th - 17th October 2019 - Edinburgh, MacDonald Hotel
Effective alarm management

Edition 3 of EEMUA 191 - Are you up to speed with the latest changes and improved guidance?

Are you confident that your alarm system is effective?

Do you know if your operators are burdened with too many alarms and how this might be improved?

Could you miss key safety or environmental alarms during an incident?

Alarm systems themselves need to be managed; the alarm system needs to be configured in a consistent manner so that the operator is in a position to take the most appropriate action. ABB’s practical approach to alarm management takes you through the full alarm lifecycle covering the projects, operations and maintenance phases. As well as offering guidance for alarm specification and design, we will help you to identify and solve problems with existing systems such as nuisance alarms. While reduced legislative risk continues to be a major driver, significant financial savings can be achieved from a well designed and maintained alarm system which provides operators with an effective tool to deliver operational benefits including increased up time, higher OEE, improved maintenance and tighter product quality.

What the course will cover
- Standards and guidance; ASM, ISA, HSE, NAMUR. The course is based on the requirements of ISA 18.2, and IEC 62682, supplemented as appropriate by the good practice guidance contained in EEMUA 191
- The alarm management lifecycle; requirements, recommendations and good practice for alarm identification, specification, design and implementation. Including human factors and HMI design
- Alarm system documentation; alarm philosophy, alarm system requirements specification and master alarm database
- Setting of performance targets
  Managing your alarm system for continuous improvement; the role of performance measurement, monitoring and review. Alarm monitoring and logging tools. Alarm analysis techniques
- Advanced alarm management, tools and techniques, risk / benefit considerations
- Drivers and benefits for prospective and retrospective alarm rationalisation

Duration: 3 days

Price:
Member of IChemE - £1665 + VAT
Non-Member - £1750 + VAT

Who will benefit and what will they gain?
This course is suitable for anybody involved in the specification, design, operation and maintenance of control systems or anyone who has an interest in improving their current alarm system. On completion you should be able to:

- Understand why your alarm system should be managed
- Identify and evaluate the associated benefits
- Have a good awareness of ISA 18.2 and the latest standard IEC 62682 requirements and recommendations and the guidance contained in EEMUA 191
- Better understand the value and role of alarms
- Develop an alarm philosophy and design and implement an alarm schedule/database
- Apply requirements and good practice to the identification, specification and design of new alarms
- Have an understanding of the need and benefits of performance measurement and what tools are available
- Have an understanding of the continuous improvement cycle for alarm management
- Identify nuisance alarms and assemble a toolkit that helps reduce them
- Understand the process, inputs and deliverables from an effective alarm rationalisation exercise

The training method
This is a highly interactive course in which lecture presentations are supplemented with practical examples, case studies, and individual & group exercises to reinforce the formal learning.

Course leader
Colin Bartliff is a Senior Safety Consultant with ABB. He has over 35 years of industry experience in a variety of roles covering process, maintenance, project management, plant commissioning, start-up, technical plant / process troubleshooting and latterly holding a leading position with a leading chemical company. Colin has held a senior position within ABB, leading several alarm management projects in the UK and abroad. Colin is Hazardous Area (COMPEX) certified and a qualified Functional Safety TUV Engineer.

This course meets the requirements of Continuing Professional Development (CPD).

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<tr>
<th>Day one agenda* - 09:00 to 17:00</th>
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<td>Alarm management today</td>
<td>Operating envelopes</td>
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<td>What is an alarm?</td>
<td>Highly Managed Alarms (HMAs) / protective layer</td>
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<td>Standards and guidelines</td>
<td>Responding to alarms</td>
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<td>Roles and responsibilities</td>
<td>Alarm system performance targets</td>
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<td>Alarm system documentation</td>
<td>Alarm management benefits</td>
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<th>Day two agenda* - 09:00 to 17:00</th>
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<td>Alarm identification</td>
<td>HMI auditable annunciation prioritisation</td>
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<td>Rationalisation</td>
<td>Enhanced and advanced alarm methods</td>
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<td>Design considerations (including worked examples)</td>
<td>Management of Change (MoC)</td>
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<th>Day three agenda* - 09:00 to 16:00</th>
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<td>Alarm logging and analysis tools</td>
<td>Nuisance alarm review</td>
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<td>Performance monitoring</td>
<td>Alarm shelving</td>
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<td>Continuous improvement</td>
<td>Bulk rationalisation</td>
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<td>Alarm analysis</td>
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ABB reserve the right to amend the course agenda.

How to book
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