

OICE Group of companies – the only trained and certified solution partner in Asia by PAS Inc., is pleased to offer a series of regional workshop program for Effective Alarm Management in Singapore, Malaysia, Thailand and China from April 2010. This workshop will introduce you to the steps required for an effective alarm management initiative and be presented to you by PAS's team of senior consultants on Alarm Management, including senior lead consultant Bill Hollifield - advocate and voting member on the ISA.18 committee, and co-author of the highly adopted book, "The Alarm Management Handbook".

Each year over \$20 Billion dollars is lost to Abnormal Situations with \$10 Billion of this contributed to unexpected disruption of plant production. The data shows that operations practices can lead to costs of 3-8% of plant capacity due to unexpected events. PAS is the leading authority in the field of alarm management, having the most experience and largest portfolio of software and services to address the problem. With the recent publication of *The Alarm Management Handbook – A Comprehensive Guide*, PAS has captured in one volume the entire current body of best practices knowledge, and our experiences in hundreds of successful projects, for improving and optimizing the performance of a modern alarm management system.

The primary responsibility for handling abnormal situations lies with the operations crews and console operators. The alarm system is the primary method by which the control system notifies the operator of such situations. A poorly functioning alarm system is often noted as a contributing factor to the seriousness of upsets, incidents, and major accidents. Significant alarm system improvement is needed in most industries that utilize computer based distributed control systems; it is a massively common and serious problem.

Companies have become aware that they need to thoroughly investigate, understand, and improve their alarm system performance. Alarm management is a fast-growing, high profile topic in the process industries. It is the subject of constant articles in the trade journals and at various technical society meetings and symposia.

Alarm Management involves the proper design, implementation, operation, and maintenance of industrial manufacturing plant alarm systems. Major issues exist with alarm floods, number of standing alarms, inadequate configuration of alarms, nuisance alarms, and lack of corrective actions.

By following proper Alarm Management techniques and best practices, the response to abnormal situations will be much improved and lead to:

- Reductions in incident frequency and severity
- Increased production

- Cost savings
- Safety improvement
- Product Quality improvement

PAS is the premier provider of people and asset solutions to the process industry. PAS maintain a dedicated consulting and engineering team while OICE complements with a professional team of project execution organization with outstanding project management methodologies and strong project management skills. Our combined extensive experience ensures the success of our clients where we have applied solutions.

Please direct questions or comments regarding this workshop to Jonathan Han at jonathan@oicelimited.com or by contacting him at +65 6395 5296. Or you may contact our regional OICE offices at your location for enquires.

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Alarm Management Certified Professional (AMCP) Training Workshop

Become AMCP certified and you will be able to assess the issues with your current control system's alarm system and take action that will improve productivity, profitability, and safety.

Certification benefits

- How to prepare your plant for new safety, procedure and insurance regulations.
- How to successfully eliminate up to 60% or more of your alarms.
- How to improve safety standards, meet production demands and reduce trips.
- How to employ proven procedures and strategies to prioritize and configure alarm settings.
- How to quickly and effectively integrate alarm management strategies by examining successful, working solutions.
- How to build a successful alarm philosophy tailored specifically to your plant.

Course Topics and Agenda

Day 1

Section 1: Introduction and Overview

- Background & Introduction to Alarm Management
- Course Objectives
- References and Guidelines – EEMUA, ISA, OSHA
- Seven Steps

Section 2: Develop and Maintain an Alarm Philosophy

- Purpose, Alarm Definition and Criteria
- Alarm Annunciation and Response
- System Performance
- Handling Methods and D&R
- Design considerations
- MOC, Training, Workflow

Section 3: Baseline and Benchmark Your Alarm System

- EEMUA standards and targets
- Alarm and Event Analysis
- The five stages of Alarm Performance
- Analysis of Operation Actions
- Alarm KPI's

Section 4: Resolve Bad Actor Alarms

- Definition of Bad Actors
- Common Alarm Problems and how to Solve them
- Bad Actor Resolution Process and Responsibilities

Section 5: Conduct Documentation and Rationalization

- Participation and Reference
- Rationalization grid
- Alarm Documentation
- Master Alarm Database
- After Documentation and Rationalization
- Expected costs and Duration

Day 2

Section 6: Implement Audit and Enforcement

- Alarm Settings
- A&E Design and Configuration
- A&E Maintenance
- Roles and Responsibilities

Section 7: Design and Configure Real-Time Alarm Management

- Nuisance Alarms
- Alarm Suppression
- Alarm Shelving
- State-Based Alarming
- Alarm Flood Suppression

Section 8: Maintain Your Alarm System

- Control and Maintain

Section 9: Define and Implement Management of Change Process

- Roles and Responsibilities
- MOC Process

Section 10: Justifying Alarm Management Projects

- Cost of Poor Alarm Management
- Issues that Contribute to Alarm issues
- Business Benefits



REGISTRATION FORM

Alarm Management Certified Professional (AMCP) Training Workshop

11th & 12th August, 2010

IMPIANA KLCC Hotel

To: OICE

We are pleased to confirm our participation and will like to register the undersigned for the above training workshop as follows:-

PARTICIPANT PARTICULARS

Name:

Designation & Department:

Company Name:

Company address:

Office Phone:

Office Fax:

Mobile Phone:

E-mail:

PLEASE SEND INVOICE TO:

Name:

Designation:

Department:

Phone:

E-mail:

Signature & Company stamp

Notes:

- **Registration Fees:** US\$1,300.00 per delegate for 2 days training workshop.
- Please fill out the registration form and fax to +6 03 7880 9463 or e-mail to jonathan@oicelimited.com for the attention of Mr Jonathan Han.
- Dateline for registration is **30th July 2010**.
- Payment must be received within **5 days** upon issuance of invoice.
- **Cancellations:** Any cancellations after **5th August 2010** will be subjected to a cancellation charge of **50%** of registration fee. All cancellations must be made in writing attention to Mr Jonathan Han. Substitution of participants is allowed.
- Whilst every effort will be made to ensure smooth delivery of workshop training, however, if for any reasons beyond reasonable control where change of venue, timing, contents and/or speaker(s) is necessary, OICE will make best efforts to contact and inform participants at earliest possible opportunity.

For all other enquiries pertaining to this workshop training, please contact **Mr Jonathan Han** at:

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