

PAS Alarm Management Certification Workshop Agenda

Day 1:

1. Introduction and Overview

- Impact/background (Attention getter)
- About PAS
- Classroom safety – facilities, fire exits, etc.
- Course outline
- Course objectives
- References and Guidelines – EEMUA, ISA, OSHA, Alarm Management Handbook
- Seven steps

2. Develop and Maintain an Alarm Philosophy

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

3. Baseline and Benchmark Your Alarm System

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

4. Resolve Bad Actor Alarms

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

5. Conduct Documentation and Rationalization

- Introduction/overview
- Participation and Reference
- Rationalization grid
- Alarm Documentation

- Master Alarm Database
- After D&R
- Expected costs and duration

Day 2:

6. Implement Audit and Enforcement

- Introduction/overview
- Alarm
- A&E Initial Design and Configuration
- A&E Maintenance
- Roles and Responsibilities

7. Design and Configure Real-Time Alarm Management

- Introduction/overview
- Nuisance Alarms
- Alarm Suppression
- Alarm Shelving
- State-Based Alarming
- Alarm Flood Suppression

8. Maintain Your Alarm System

- Introduction/overview

9. Define and Implement Management of Change Process

- Introduction/overview
- Roles and Responsibilities
- MOC Process

10. The High Performance HMI

- Introduction / History / Overview
- Proper Graphics Design Principles & Common Bad Practices
- Graphic Hierarchy and Navigation
- Control Room Factors and Effective Console Layout

11. Justifying Alarm Management Projects

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