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Course Name

Advanced Alarm Management in Control Systems

Sector Name

Instrumentation & Controls

Document Type

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Advanced Alarm Management in Control Systems

Course Introduction

Currently, process plants face significant challenges that significantly affect their productivity, efficiency, product quality, safety, integrity, and security. A well-designed alarm management system can address these challenges, whereas a poorly designed alarm management system can cause serious consequences and also become a nuisance to plant operators and other personnel. Plant personnel dealing with the above issues need to attend this seminar to learn and apply best practices of alarm management using real-world examples and tools.

Delegates will return to their jobs not only with a better understanding of alarm management best practices but equipped with a set of practical set of techniques, procedures, and tools to optimize their alarm management system to increase the productivity, efficiency, product quality, safety, integrity, and security of their processes.

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Advanced Alarm Management in Control Systems

Target Audience

The Advanced Alarm Management training seminar should be of interest to a wide range of professionals interested in learning and applying alarm management for improving the productivity, efficiency, product quality, safety, integrity, and security of their processes.

This training course is suitable for a wide range of professionals, but will greatly benefit:

- ✓ Automation, Chemical, and Process Engineers
- ✓ Installation and Maintenance Technicians
- ✓ Instrumentation and Control Engineers
- ✓ Process Operators
- ✓ Production and Project Managers
- ✓ Other Professionals who want a better understanding of the subject matter

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Advanced Alarm Management in Control Systems

Learning Objectives

- ✓ Understand the fundamentals of Alarm Management and Alarm Philosophy
- ✓ Apply procedures for Alarm Rationalization
- ✓ Apply procedures for Alarm Design, Implementation, Operation, and Maintenance
- ✓ Apply procedures for Alarm Performance Monitoring and Assessment
- ✓ Implement Alarm Management Procedures using hands-on tools

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Advanced Alarm Management in Control Systems

Course Outline

✓ 01 Day One

Introduction to Advanced Alarm Management and a Review of P&ID and Process Control Safeguarding

- ✓ What is Advanced Alarm Management?
- ✓ Main standards for Advanced Alarm Management: ISA 18.2, EEMUA 191, IEC 62682
- ✓ Review of P & ID Diagrams
- ✓ Review of Process Control Systems, BPCS
- ✓ Review of Process Control Safeguarding
- ✓ Hazard Analysis
- ✓ Safety Instrumented Systems (SIS)
- ✓ Layers of Protection Analysis (LOPA)
- ✓ Safeguarding Examples
- ✓ Advanced Alarm Management as a layer of LOPA
- ✓ Benefits of Alarm Management

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Course Outline

✓ 02 Day Two

Alarm Issues, Alarm Principles and Philosophy

- ✓ What is an Alarm?
- ✓ Alarm Issues
- ✓ Alarm Proliferation
- ✓ Nuisance Alarms
- ✓ Operator Overload
- ✓ Alarm Management Principles
- ✓ Alarm Management Philosophy
- ✓ Alarm Philosophy Document
- ✓ Alarm Management Lifecycle
- ✓ Alarm Identification

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Course Outline

✓ 03 Day Three

Alarm Rationalization

- ✓ Alarm Objective Analysis
- ✓ Documenting Operator Response Time
- ✓ Assigning Alarm Priorities
- ✓ Classifying Alarms
- ✓ Defining Alarm Attributes
- ✓ Assessing the Need for Advanced Alarming
- ✓ Procedures and Configuration Examples

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Course Outline

✓ 04 Day Four

Alarm Design, Implementation, Operation, and Maintenance

- ✓ Basic Alarm Design
- ✓ Application of Alarm Dead band (hysteresis)
- ✓ Application of On/Off Delays
- ✓ Alarms and Interlocks
- ✓ SIS / ESD Alarms
- ✓ HMIs for Alarms
- ✓ Advanced Alarm Design: Dynamic Alarm Suppression
- ✓ Alarm System Testing
- ✓ Alarm Maintenance
- ✓ Alarm Dhelving
- ✓ Alarm Response Procedures

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Course Outline

✓ 05 Day Five

Alarm Performance Monitoring and Assessment

- ✓ Alarm Key Performance Indicators (KPIs)
- ✓ Alarm System Performance Reporting
- ✓ Alarm Analysis
- ✓ Annunciated Alarm Rate
- ✓ Alarm Floods
- ✓ Out of Service Alarms
- ✓ Chattering, Redundant, Shelved Alarms
- ✓ Alarm Reporting
- ✓ Alarm Audits
- ✓ Course Summary

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Nov. 16, 2026	Nov. 20, 2026	5 days	4250.00 \$	UAE , Dubai
Feb. 1, 2027	Feb. 5, 2027	5 days	4250.00 \$	UAE , Dubai
June 13, 2027	June 17, 2027	5 days	4250.00 \$	KSA , Riyadh
Aug. 2, 2027	Aug. 6, 2027	5 days	4950.00 \$	Spain , Madrid

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