Course title:
Pre-Start-up Safety Review in Fertilizer Plants

Introduction:

Pre-start-up safety review (PSSR), means a final check prior to initiating the use of process equipment. It implies a management system within that program for ensuring that new or modified processes are ready for startup.

This is done by verifying that equipment is installed in a manner consistent with the design intent and that process safety management systems are in place. As each change, the associated risk, and the process in question may be unique, applying PSSR in a systematic way to your work processes simply represents a good business practice.

This training course examine the application of the practice of PSSR to the fertilizer plants hardware, software, engineering, and management activities, and documentation associated with operating processes.

Duration 7 hours.

Course outline:

Module 1 – Introduction
1. Benefits of Performing Pre-start-up
2. What is the Scope of a PSSR

Module 2 – What is a PSSR
1. The Basics of Pre-start-up Safety Review
2. Some Common Steps for Performing PSSR
3. What is a Risk-based Approach to PSSR
4. Scheduling Considerations
5. Changes to Operating Facilities
6. Temporary Changes
7. Post-turnaround Start-up
8. Routine Maintenance
9. Start-up After Emergency Shutdown
Module 3 – Pre-Start-up Review Work Process

1. Defining the PSSR System
2. PSSR Sub-elements
3. Designing and Implementing an Initial PSSR Program
4. Preparing to Perform a Pre-start-up Safety Review
5. Follow Pre-start-up Safety Review Action Items
6. Approve the Pre-start-up Safety Review Report

Module 4 – Methodologies For Compiling And Using a PSSR Checklist

1. Building Your Facility's Database of Questions
2. Considerations for Fertilizer Industry
3. Examples of PSSR checklists

Module 5 – Continuous Improvement

1. Diagnosing PSSR System Issues
2. Training and Communication
3. Excesses and Deficiencies
4. Example PSSR Performance and Efficiency Metrics
5. PSSR Performance Indicators
6. PSSR Efficiency Indicators

Learning outcomes:

By the end of this training course you will understand:

- What is the construction, maintenance, or programming work performed to build, install, or program the process change to meet the design specifications originally intended.
- What are the pre-start-up activities that have to be completed and post-start-up activities to be scheduled and tracked to help ensure that equipment is designed, fabricated, procured, installed, operated, and maintained in a manner appropriate for its intended application.
- What are the new chemicals or materials to be used in the process in regard to safety, health, environmental and material performance issues.
- Allocation of personnel assigned to inspect, test, maintain, procure, fabricate, install, or commission process equipment to be appropriately trained and have access to current and up-to-date procedures and process safety information.

Who will benefit:

Employees who are responsible or share responsibility with respect to the PSSR activities. Anyone interested in developing a new PSSR program or upgrading an existing one.

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- Managers of process safety management and PSM coordinators at a manufacturing facility
- Corporate process safety management staff
- Project managers and project team members whose projects initiate the need for a pre-start-up safety review
- Engineers or other staff members performing management of change activities
- Operations, maintenance and other manufacturing personnel who may be part of a PSSR team
- Any employee participating in the PSSR program

Course materials:

- Hand-out presentation slides in PDF format
- PSSR checklists

Price:

€ 750

Discounts:

- 2 places – 10% discount
- 3 places – 15% discount
- 4 or more places – 20% discount.

In-company training:

This course is also available as an in-company course (face-to-face or online) where content can be customised to meet your organisation’s specific needs and delivered on a date/location that suits your requirements.

Contact us for more information.

Training code: PSM10