

Learning Topic: Environmental Pollution of Industrial Processes & Occupational Safety

Course Name: Environmental Pollution of Industrial Processes & Occupational Safety.

Reference Code : SAF 316

Description:

- Environment pollution accompanies each stage of any industrial process, starting with raw material and fuel production and ending with waste treatment.
- Energy consumption plays a key role in every human activity. On the other hand its production is associated with severe pollution of air, soil and water. That is why energy saving, accomplished by any method contributes to reduction of the overall pollution of environment.
- Different opportunities to reduce emissions in industrial processes, particularly due to the chemical industries, as the mostly powerfully polluting ones, are presented and discussed in this training.

Course Objective:

By the end of this course participants will be able to:

- Recognize and identify Law, Regulation and Policy related to process industry pollution
- Identify sources and impact of their process industry pollution
- Develop deeper understanding of Process Industry Pollution and Management.
- Assess the impact of industries on the environment and human
- Develop and establish the pollution prevention program
- List the drivers and benefits for carrying out environmental risk assessments and pollution control program
- Measure progress of the pollution prevention program
- Report on findings and action plan for environmental best practice

Program Methodology:

This interactive training/workshop provides intense learning opportunities provided through wide ranging discussions, presentations, related videos, workshops, etc. The course characterizes sustained interest, enthusiasm and participation displayed by the participants throughout the program.

United Arab Emirates

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Who Should attend?

- Staff responsible for setting up environmental management systems;
- Staff wishing to reduce risk and liability for their organization through sound Pollution Control programs, practices, principles and procedures;
- All managers and staff involved in environmental management and who need an appreciation of the techniques and principles involved in pollution reduction

Course Outline:

1. Summaries of Environmental Laws Relevant to Process Industry Pollution

- Clean Air Act (CAA)
- Clean Water Act (CWA)
- Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, or Superfund)
- Emergency Planning and Community Right-to-Know Act (EPCRA)
- Pollution Prevention Act (PPA)
- Resource Conservation and Recovery Act (RCRA)
- Safe Drinking Water Act (SDWA)

2. Environmental Pollution from Process Industries

- Pollution and Pollutants
- Types of Pollution
- Effects of Pollution
- Managing Pollution
- Environmental Ethics
- Rules Vs. ALARP

3. Do a Preliminary Assessment

- Understanding Processes and Wastes
- Define Production Units
- Understand Unit Processes
- Perform Materials Balance
- Establish Priorities

4. Developing Pollution and Environmental Risk Assessment

- Conceptual Model and Strategies
- Source-Pathway-Receptor (SPR) model

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- Scenario building.
- Screening and prioritizing the risk
- Exploit staged approach to environment risk assessment
- Structured decision making

5. Developing a Pollution Prevention Program

- Obtaining support from top management
- Identifying potential pollution prevention opportunities for the facility.
- Selecting the best pollution prevention options through feasibility study
- Writing an assessment report describing results of the assessment
- Implementing the pollution prevention plan
- Measuring progress by evaluating the pollution prevention
- Maintaining and sustaining the pollution prevention program

| Course Duration | Date | Venue | Course Fee |
|-----------------|------|-------|------------|
| 5 Days | | | |

Time: 08:00 AM -03:00 PM

Numbers of hours: 30 Hours

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