

Process Safety Management of Highly Hazardous Chemicals (PSM)

Introduction: Process safety management of highly hazardous chemicals contains requirements for preventing or minimizing the consequences of catastrophic releases of toxic, reactive, flammable, or explosive chemicals. These releases may result in toxic, fire, or explosion hazards. This process refers to activities such as using, storing, manufacturing, handling, or moving hazardous chemicals.

Employee participation: You must have a written plan that describes how you will involve employees in identifying and analyzing workplace hazards and how you will inform them about analysis results.

Process safety information: You must compile written process-safety information that covers hazardous chemical processes used in your workplace. This information helps those who perform a hazard analysis. Refer to compliance guidelines and recommendations for PSM (non-mandatory).

Operating procedures: You must develop and implement written procedures that provide clear instructions for safely conducting activities in each covered process. The procedures must be accurate, clearly written, and revised periodically to ensure that they reflect current operations. Refer to compliance guidelines and recommendations for PSM (non-mandatory).

Training documentation: You must ensure that each employee involved in operating a process has received and understood the training required by the initial training, the refresher training, and the training documentation. Document the names of employees who have been trained, their training dates, and the means you used to verify that they understood the training.

Initial training: Instead of initial training for employees who understand an operating process, you may certify in writing that the employees have the required knowledge to perform their duties.

Contract-employer responsibility: Contract employers must document that their employees have received and understood the training required by the initial training, the refresher training, and the training documentation. Contract employers must document the names of employees who have been trained, their training dates, and the means used to verify that they understood the training.

Mechanical integrity (written procedures): You must have written procedures that ensure process equipment works properly and receives periodic maintenance. Refer to compliance guidelines and recommendations for PSM (non-mandatory).

Mechanical integrity (inspection and testing): Document each inspection and test performed on process equipment. Record the inspection or test date, the inspector's name, a description of the activity, and the inspection results.

Hot-work permit: A hot-work permit is required for hot-work operations conducted on or near a covered process. The permit must show the dates authorized for hot work and identify the equipment on which the hot work will be performed.

Managing change: To ensure that workplace changes affecting chemicals, technology, equipment, or facilities are handled safely, you must have written procedures to manage modifications to equipment, procedures, raw materials, and processing conditions other than replacement in kind.

Emergency planning: You must have an emergency plan for the entire plant.

Written requirements include the following:

- Emergency-escape procedures and escape-route assignments
- Emergency procedures for employees who operate critical plant operations before they evacuate
- Emergency procedures to account for all employees after emergency evacuation has been completed
- Employee rescue and medical duties
- Instructions for employees reporting fires and other emergencies
- The names of those responsible for managing the plan

Conclusion: Utilize these safety guidelines to make workers aware of the process safety management of highly hazardous chemicals.

NOTICE: These guidelines do not supersede local, state, or federal regulations and must not be construed as a substitute for, or legal interpretation of, any OSHA regulations.

Sign Off Sheet - Process Safety Management

2626 S Roosevelt St, Tempe, AZ 85282 (877) 201-8923



Company Name: _____ Job Site Location: _____

Date: _____ Start Time: _____ Finish Time: _____ Foreman/Supervisor: _____

Work-Site Hazards and Safety Suggestions: _____

Personnel Safety Violations: _____

Employee Signatures: (My signature attests and verifies my understanding of and agreement to comply with, all company safety policies and regulations, and that I have not suffered, experienced, or sustained any recent, job-related injury or illness.)

[illegible]

Foreman/Supervisor's Signature: _____