

FREE Chemical Process Safety Management (PSM) Workshop to Help Your Organization PREVENT CATASTROPHIC TOXIC CHEMICAL RELEASES, FIRES AND EXPLOSIONS

8:30 a.m. to 3 p.m. Friday, April 29, 2016

[L&I Tukwila service location](#), 12806 Gateway Dr. S, Tukwila, WA 98168

Teleconference number available for this event: Call 1-866-715-6499 Passcode: 1897720443

If you plan on attending in person **please RSVP** to devin.proctor@lni.wa.gov. Seating is limited.



Workshop Facilitator: Jerry L. Jones,
PE, CSP, CHMM, CFEI
Chemical Engineering Consultant
jjonespe@sbcglobal.net

Prior to beginning consulting in 2010, Mr. Jones worked for >40 years across a variety of industry sectors including fuels and commodity chemicals, polymers, specialty chemicals, pharmaceuticals, food and beverage processing, and electronics industry materials. He has worked in process development and engineering, manufacturing plant design, manufacturing, EHS, and process safety functions and supported manufacturing operations in over a dozen countries while an employee of Monsanto, SRI International, Raychem, a specialty chemicals startup company, and Genentech/Roche.

Mr. Jones has extensive experience with the implementation of risk-based management systems. He earned BS and ME degrees in chemical engineering from Cornell University and an MS in environmental engineering from Stanford University. He is a licensed professional engineer in Illinois and California and holds a number of safety related certifications. He currently serves as a chemical engineering consultant to a number of chemical and engineering businesses, government agencies, industry associations and professional societies including the AIChE Center for Chemical Process Safety where he serves as a staff consultant and process safety instructor.

“Prior to any major accident there are always warning signs which, had they been responded to, would have averted the incident.”

Source: Professor Andrew Hopkins,
Australian National University and
Winner of the 2008 Annual Safety
Award of the European Process
Safety Centre

Workshop Overview

Implementing Risk Based Process Safety and Identifying Incident Warning Signs within Your Organization

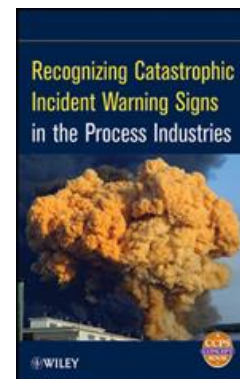
Mr. Jones volunteered to lead this workshop in the Seattle area to help spread the word about risk based process safety. He has decades of experience implementing risk based management system practices at manufacturing facilities globally. He also teaches risk based PSM concepts to industry professionals across many industry sectors in US, Europe, Latin America and Asia.

During the workshop Mr. Jones will:



- Review some of the most commonly cited root causes (management system deficiencies) associated with catastrophic process safety incidents that have occurred globally over the last 50+ years
- Discuss the importance of engaging everyone across all functions and at all levels of the organization in process safety roles and responsibilities
- Describe some key risk based process safety concepts that individuals across the organization need to fully understand and some of the competencies required within the organization
- Have small working groups analyze some past incidents to describe the “mechanics” of an incident and what barriers failed or were missing and why

- Review examples of warning signs associated with:
- Process safety culture and conduct of operations
- Staff training and process safety competencies
- Process safety knowledge management
- Procedures for operation
- Asset integrity and reliability
- Management of change processes/procedures
- Learning from experience and metrics
- Physical warning signs to look for as you walk around the plant site
- Analyze some industry incidents that illustrate when there were clear warning signs that either were missed or ignored when identified
- Describe tools available through the [AIChE CCPS Vision 20/20](#) process safety strategy that give your organization the ability to assess opportunities to improve risk management practices.



Target Organizations and Individuals: Organizations involved with fuels, chemicals and polymers manufacturing ; hazardous chemicals users in various other industry sectors like pulp and paper, agricultural commodity / food processing (involving combustible dusts or ammonia refrigeration), aerospace equipment and materials manufacturing, large volume storage/distribution of hazardous chemicals (including compressed and liquefied gases such as chlorine, propane or LPG, ammonia, and cryogenics such as liquefied oxygen and nitrogen), and public agencies such as water and wastewater treatment authorities storing and using toxic gases such as chlorine and generating flammable biogas. Individuals involved with the design, operation and maintenance of the facilities such as site managers, site functional leaders, manufacturing/process engineers and chemists, maintenance/reliability engineers, maintenance crafts leads, shift supervisors, lead operators and EHS professionals.

Sponsored by:

Washington State Department of Labor and Industries
Division of Occupational Safety and Health