



CONDUCTING HAZARD REVIEWS TO IMPROVE SAFETY & PRODUCTIVITY

Why wait until accidents happen to fix problems? The best way to prevent mishaps is to determine the hazards in advance. Conducting effective hazard evaluations and taking corrective action to fix problems are essential for controlling risks. This program will provide practitioners with the skills needed to evaluate hazards and find problems that could eventually result in injuries, environmental releases, operational upsets, and business losses. The instructor will use his industry experience to teach participants how to conduct effective analyses. The use of best practices to conduct hazard reviews will also be discussed.

The program faculty has conducted numerous hazard reviews in a variety of process and manufacturing settings, and has also published several articles on identifying hazards and enhancing workplace safety. Participants will learn how to use a variety of qualitative techniques to make their processes safe and improve performance. Real-life exercises will be conducted to illustrate points. The resources provided in the program will assist attendees in choosing the appropriate methodology for application.

The program is designed for managers, process engineers, safety professionals, operators, auditors, and other individuals in manufacturing settings who want to know how to conduct effective hazard and operability reviews. The program will also benefit individuals in academia, government, or other positions who want to know more about conducting hazard reviews.

PROGRAM CONTENT

- How to develop a hazard review system that can be integrated into existing management systems.
- How to use a variety of techniques, such as Hazard and Operability Analyses, What-If, and Checklists for different processes and during all phases of operation.
- How to make cost-effective recommendations to improve safety and operations.
- How to determine the scope for a review.
- Setting up the logistics for a meeting, including selecting a team.
- Leading and facilitating discussions to getting participation from all members.
- How to identify, collect, and analyze necessary information for the review.
- How to modify the review techniques to cover any situation.

- Common “traps” in hazard reviews and how to avoid them.
- How to report findings and observations.
- How to treat facility siting and human factors in hazard reviews.

PROGRAM FACULTY

Karl Kolmetz has over 25 years of experience in the areas of design, construction, commissioning, and operations management of process units from the U.S. Gulf Coast to Alaska to Asia. He has a strong background in a wide variety of chemical process technologies and product categories, with more than 16 years of experience in refining and 12 years in petrochemicals processing. Currently, he is the General Manager for KLM Technology Group where he is responsible for process studies, design, and troubleshooting of process units. Karl has authored or co-authored over 35 articles on petrochemical and refinery operations in the areas of equipment design, operation, and troubleshooting. He holds a B.S. degree in Chemical Engineering from the University of Houston.

Stephen J. Wallace PE, CSP, has several years of experience in the chemical and petrochemical industries working with a variety of process technologies. He has been an operations manager in the chemical industry where he oversaw production. As a manager of health and safety, he oversaw the development and implantation of comprehensive process safety programs, including emergency response. The facilities where he worked won numerous awards and were designated among the safest facilities in the U.S. by the Occupational Safety and Health Administration. As a safety consultant, he has assisted numerous companies in developing comprehensive safety programs, and has audited several facilities in the USA and abroad. He has given several presentations and written numerous articles on the subject of health and safety that have been published in a variety of journals. He holds a B.S. degree in Chemical Engineering, and is a Certified Safety Professional Engineer, licensed in multiple states in the USA.