



Society for Chemical Hazard Communication
Professional Development Training

**Characterizing Industrial Operations to Support Hazard
Communication and Regulatory Submissions for New Chemical
Notifications in the US**

Monday, September 19, 2022
Crystal Gateway Marriott Hotel – Arlington, Virginia

Course Description

The focus of chemical regulation in the US is to identify risks posed by the manufacturing, processing, use and disposal of chemicals in commerce. Risk is a function of both the inherent toxicity and exposure potential of a substance. When regulatory agencies conduct risk assessments on industrial chemicals to identify potential risk, a significant focus is placed on modeling the exposures and releases from industrial operations to identify appropriate engineering controls, personal protective equipment, and to inform hazard communication requirements. This course will illustrate supply chain vocabulary and common operational activities associated with exposures and releases, with a hands on demonstration of the US EPA software program ChemSTEER used to model occupational exposures and environmental releases under the U.S. Toxic Substances Control Act (TSCA). The course will include background information on the assessment of exposure within the risk assessment context and present a case study for participants to demonstrate the types of details to provide regulatory authorities and include under various sections of the safety data sheets.

Course Objective

The course will educate participants on the importance of communicating details of industrial operations to regulatory authorities and will demonstrate how those details impact the identification of personal protective equipment and engineering controls, leads to downstream exposure potential, informs the overall risk assessment and influences regulatory outcomes. Attendees are encouraged to have laptops available with the US EPA freeware tool ChemSTEER installed prior to the workshop to take full advantage of the hands-on session.

Intended Audience

HSE and regulatory professionals looking to strengthen their knowledge of general regulatory exposure assessment and gain insight into the identification of personal protective equipment in the workplace, engineering control design and development of hazard communication information. The course material is designed for attendees of all scientific backgrounds, but participants should have some knowledge or experience in chemical regulation or risk assessment.

Course Fee: \$275.00 members // \$405.00 non-members



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Course Director / Instructor



Kelly E. Mayo-Bean

Kelly Mayo-Bean is a Principal Consultant with ERM. Prior to beginning her consulting career in 2018, Kelly spent 15 years at the USEPA Office of Pollution Prevention and Toxics serving as technical expert on the use of predictive models to assess environmental fate, hazard, and exposure concerns for industrial chemicals. Kelly managed the development of numerous USEPA predictive tools and administered the Sustainable Futures training program to educate stakeholders on the new chemical review process under the Toxic Substances Control Act (TSCA) and screening level risk assessment approaches. She participated in numerous international activities within the Organization for Economic Cooperation and Development (OECD) and served as the US representative on the OECD QSAR Toolbox Workgroup. In 2015, Kelly became an Associate Branch Chief at USEPA focusing on prenotice communications with industry, scientific assessments for new chemicals and supporting final determinations and regulatory actions on new and existing chemicals under TSCA. In her consulting work she supports clients with regulatory strategies for introduction of new industrial chemicals into the United States and Canada and provides guidance on the development of safer chemistries by using predictive models to incorporate hazard, exposure and risk considerations early in the research and development stage.

**Course Topics and Schedule
(Subject to Change)**

Monday, September 19, 2022

12:30 – 1:00	Registration
	Evaluating Industrial Operations and Environmental Releases
1:00 – 2:30	The instructor will discuss the principles of chemical lifecycle analysis and exposure assessment and provide direction on developing industrial operation diagrams to include manufacturing, processing, and commercial use and introduce methods to characterize the impact to workers and the environment from those activities. A case study will be presented to outline the appropriate level of detail needed to characterize potential exposures.
2:30 – 2:45	Break
	US EPA ChemSTEER Hands-On Session
2:45 – 5:00	The instructor will lead a hands-on session with the US EPA software to show participants how the information provided to the US EPA is used to develop an exposure assessment, identify the most important information elements in the exposure modeling process, and inform the use of PPE recommendations and engineering controls.



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Registration

Admission to the course will be on a first come basis. **Payment must be received by August 6, 2022**, to secure your space. Space is limited.

Fill out the [registration form](http://www.schc.org) located on SCHC's website: <http://www.schc.org>

SCHC accepts checks, Visa, MasterCard and American Express.

Cancellation Policy

No refunds will be given after August 6, 2022. No one will be admitted to the course unless all fees have been paid in advance. Substitutions are permitted. Every effort has been made to ensure the information in this brochure is accurate. SCHC reserves the right to modify this course without prior notice or to cancel the course 30 days prior to the course date. In the event this course is canceled, SCHC's obligation is limited to a full refund of the course fee.

Hotel Accommodations

Arrangements have been made for a block of rooms at the [Crystal Gateway Marriott](#) - 1700 Richmond Highway, Arlington, Virginia 22202 - 703-920-3230. The rate is \$229/night single or double occupancy. Reservations must be booked by August 26, 2022, to obtain this special rate. You must identify yourself with SCHC when making reservations by phone.