

67% of global executives agree that sustainability strategies are necessary to be competitive.*

PROGRAM DATES

September 26, 2022 - June 2, 2023

REGISTRATION

To register, visit osha.washington.edu.

You may register for all three program courses at one time, or complete your registrations on a course-by-course basis.

Individuals who are pursuing a certificate must successfully complete all three required courses.

INFORMATION

Northwest Center for Occupational Health & Safety 206-543-1069 ce@uw.edu osha.washington.edu

This certificate program is endorsed by the Association for the Advancement of Alternatives Assessment



Businesses are facing increasing market and regulatory pressures to use less toxic chemicals in their manufacturing processes and products, and are in need of professionals who can provide innovative solutions and more sustainable substitutes.

WHAT YOU WILL LEARN

During this 3-course program, we will explore:

- The 12 guiding principles of green chemistry
- Business drivers and barriers to implementing sustainable practices
- Frameworks for incorporating chemical toxicity and human health considerations into product design, material selections, and supply chain decision-making
- · Environmental, economic, and societal benefits of green chemistry
- The latest research and regulatory developments in the field
- New tools for chemical design and methods for comparative chemical hazard assessments

THIS PROGRAM IS FOR YOU

- Engineers, chemists, and materials scientists
- Environmental product managers
- Supply chain decision-makers
- Risk management researchers
- Product stewardship professionals
- · Safety and health professionals
- Graduate level students in related fields
- · High School teachers and academic faculty
- · Legal professionals
- Building designers and architects
- Environmental and other sciences professionals in industry, labor, academia, and non-government organizations

^{*}Brokaw, Leslie. "Five Ways That Sustainability Commitment is Up— Dramatically." MIT Sloan Management Review. 27 Nov 2012. Web. 15 Oct 2012.



Overview of the 3-course Program:

COURSEI

Sustainability, Toxicology, and Human Health Dates: 9/26/22 - 12/9/22 | Credit: 5 CEUs | Cost: \$910

Overview of fundamental principles of toxicology, human health, and material science. Participants will review their own business' sustainability drivers and barriers while investigating the health and environmental hazards that contribute to human disease.

COURSE II

Principles of Green Chemistry

Dates: 1/2/23 - 3/10/23 | Credit: 5 CEUs | Cost: \$910

Fundamental principles of green chemistry, including the human and ecological reasons for considering less toxic alternatives and the various green applications to chemical design. Overview of new tools and cutting edge research for the design of 21st century chemicals that minimize hazards to health and the environment.

COURSE III

Assessment Tools for Safer Chemical Decisions Dates: 3/27/23 - 6/2/23 | Credit: 5 CEUs | Cost: \$910

Decision-making tools and methods used for comparative chemical hazard assessments. Participants will have an opportunity to use these tools through the completion of a culminating project.

Completion of all three courses is required to earn a certificate. However, individuals not pursuing a certificate are welcome to take classes a la carte.

INSTRUCTORS

Catherine Rudisill, MS, PMP

Founder & Principal, Safer Chemistry Advisory LLC

Grace Lasker, PhD

Chair, Health Studies, & Senior Lecturer, School of Nursing & Health Studies, UW Bothell Affiliate Faculty, Department of Environmental & Occupational Health Sciences, University of Washington

Karolina Mellor, PhD

Program Coordinator, Yale Center for Green Chemistry and **Green Engineering**

Richard Morgan, MS

Senior Process Chemist, Modumental

Ben Packard, MBA

Harriet Bullitt Endowed Executive Director, EarthLab, University of Washington

Nancy Simcox, MS

Lecturer and Director of Continuing Education Programs, Department of Environmental & Occupational Health Sciences, University of Washington

Brittany Weldon, PhD

Senior Toxicologist, The Boeing Company Affiliate Faculty, Department of Environmental & Occupational Health Sciences, University of Washington

RECOMMENDED PREREQUISITES

Material in the program is intended for individuals who have:

- A four-year degree
- At least 1 year of relevant work or graduate-level education experience
- A fundamental knowledge of chemistry, equivalent to a basic college-level chemistry course