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

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

Overview of the 3-course Program:

**COURSE I**
Sustainability, Toxicology, and Human Health
*Dates: 9/25/23 - 12/8/23 | 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: 1/2/24 - 3/8/24 | 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: 3/25/24 - 5/31/24 | 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

This program is supported by the University of Washington Northwest Center for Occupational Health and Safety, Molecular Design Research Network (MoDRN), and the UW DEOHS Sustainable Technologies, Alternate Chemistry-Training and Education Center (STAC-TEC)