# Globally Harmonized System for Chemical Classification

29 March – 2 April 2027
Berlin (Germany)



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## Why This Course

As global industries continue to use a wide range of chemicals, ensuring consistent and effective hazard communication is essential for protecting people, facilities, and the environment. The Globally Harmonized System GHS provides a unified framework for classifying chemicals and communicating hazards through standardized labels and safety data sheets.

The GHS Chemical Classification & Labeling Program is a comprehensive 1-week course designed to equip participants with the knowledge and practical skills needed to apply GHS principles confidently. Through hands-on classification exercises, label development workshops, and interactive SDS authoring activities, attendees will learn how to implement GHS effectively within their organizations.

## What You'll Learn and Practice

By completing this program, participants will be able to:

- Understand the purpose, structure, and key components of the Globally Harmonized System
- Apply GHS criteria to classify physical, health, and environmental hazards
- Develop GHS-compliant labels and safety data sheets SDS
- Integrate GHS requirements into workplace hazard communication programs
- Use GHS information to support safe chemical handling and risk management

## The Program Flow

### Day 1 - Introduction to GHS

- Global overview and objectives of the GHS framework
- Principles of hazard classification and standardized communication
- Physical hazard classification: flammability, explosivity, oxidizing properties
- Health hazard classification: toxicity, sensitization, carcinogenicity, etc.

### Day 2 - Environmental Hazards & Mixture Classification

- Environmental hazard categories and classification criteria
- Principles for evaluating aquatic toxicity and persistence
- Methods for classifying chemical mixtures
- Bridging principles, calculation methods, and step-by-step classification exercises



### Day 3 - GHS Labeling Requirements

- Mandatory label elements and formatting standards
- Pictograms, signal words, hazard statements, and precautionary statements
- Supplemental information and workplace-specific requirements
- Workshop: Designing and producing fully compliant GHS labels

### Day 4 - Safety Data Sheets SDS

- Structure and purpose of the 16-section SDS format
- Information requirements for each SDS section
- Best practices for SDS authoring and accuracy
- Hands-on exercise: Drafting a complete SDS from classification data

### Day 5 - GHS Implementation & Communication

- Integrating GHS into workplace hazard communication and HSE programs
- Employee training and competency requirements
- Transition and compliance management across global jurisdictions
- Case studies, group discussions, and practical problem-solving

## Practical Wins for Participants

Participants will return equipped to:

- Accurately classify chemicals using GHS physical, health, and environmental criteria
- Create compliant, professional GHS labels and SDS documents
- Build or improve workplace hazard communication programs
- Enhance chemical safety practices through proper interpretation of GHS information

## Organizational Impact

Organizations benefit through:

- Improved safety culture and reduced chemical-related incidents
- Stronger compliance with global regulatory requirements
- Streamlined hazard communication and documentation processes
- Enhanced worker training and understanding of chemical hazards

## Training Methodology

This program integrates:



- Real-world classification and labeling exercises
- Interactive workshops and hands-on SDS preparation
- Case studies involving chemical storage, transport, and workplace risk
- Expert-led guidance on global GHS implementation trends

## Beyond the Course

Participants return ready to:

- Lead GHS implementation projects within their organizations
- Improve SDS and labeling systems for enhanced compliance
- Support HSE teams in chemical safety initiatives
- Contribute to safer and more efficient chemical management programs

