GHS (Globally Harmonized System) Training Course

Description

Introduction

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) is an internationally standardized system to ensure the safe production, transportation, handling, and disposal of hazardous materials. This course provides in-depth training on the principles, implementation, and compliance strategies of GHS to enhance workplace safety, protect human health, and mitigate environmental risks. Participants will gain practical skills and insights into managing GHS compliance effectively in various industries.

Course Objectives

By the end of this course, participants will:

1. Understand the purpose and principles of the GHS.
2. Master the classification of chemicals based on physical, health, and environmental hazards.
3. Learn how to design and interpret GHS-compliant labels and safety data sheets (SDS).
4. Gain knowledge of GHS implementation across different countries and regions.
5. Develop strategies for integrating GHS into workplace safety programs.
6. Address future trends and challenges in chemical hazard communication.

Who Should Attend?

This course is designed for:

- Health, safety, and environmental (HSE) professionals
- Regulatory compliance officers
- Chemical manufacturers, importers, and distributors
- Product safety managers and supervisors
- Training and development managers
- Anyone responsible for chemical safety and hazard communication

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Advanced 5-Day Course Outline

Day 1: Introduction to GHS and Its Global Impact

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- **Session 1: Overview of GHS**
  - History and objectives of the GHS
  - Benefits of adopting a harmonized system
- **Session 2: GHS Scope and Applicability**
  - Chemicals and products covered under GHS
  - Key stakeholders: Manufacturers, importers, and end users
- **Session 3: Understanding GHS in the Global Context**
  - Regional implementation: US (OSHA HazCom), EU (CLP), and other regions
  - Case studies: Differences in GHS adoption globally

Day 2: Hazard Classification under GHS

- **Session 1: Physical Hazards Classification**
  - Flammable, explosive, and reactive substances
  - Practical exercise: Classifying physical hazards
- **Session 2: Health Hazards Classification**
  - Acute toxicity, carcinogenicity, and reproductive toxicity
  - Workshop: Assessing health hazard categories
- **Session 3: Environmental Hazards Classification**
  - Aquatic toxicity and long-term environmental effects
  - Group activity: Identifying and classifying environmental hazards

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Day 3: GHS Labels and Safety Data Sheets (SDS)

- **Session 1: Elements of GHS Labels**
  - Signal words, hazard pictograms, and precautionary statements
  - Interactive session: Designing a compliant GHS label
- **Session 2: Structure and Content of SDS**
  - 16 sections of the SDS and their requirements
  - Practical workshop: Reviewing and revising an SDS for compliance

- **Session 3: Communication and Training**
    - Effective strategies for hazard communication
    - Role-play activity: Delivering GHS training to employees

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Day 4: Implementing GHS in the Workplace

- **Session 1: Developing a GHS Compliance Program**
    - Integrating GHS into existing safety management systems
    - Tools and resources for compliance tracking
- **Session 2: Supply Chain Communication**
    - Ensuring accurate hazard communication throughout the supply chain
    - Practical session: Addressing real-world supply chain challenges
- **Session 3: Regulatory Inspections and Compliance Audits**
    - Preparing for inspections and maintaining records
    - Case studies: Common compliance issues and solutions

Day 5: Emerging Trends and Future Challenges in GHS

- **Session 1: Updates and Revisions to GHS**
    - Recent changes in GHS editions and their implications
    - Strategies for staying updated on regulatory changes
- **Session 2: Innovations in Chemical Hazard Management**
    - Digital tools for hazard classification and communication
    - Adapting to new risks, such as nanomaterials and microplastics
- **Session 3: Final Project: Developing a GHS Compliance Plan**
    - Group activity: Creating a comprehensive GHS implementation plan for a specific industry
    - Presentations and expert feedback

Conclusion and Next Steps

- Certification of completion
- Access to GHS templates, tools, and resources

- Networking opportunities with peers and industry experts

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