



## **Chemical Safety**

### **SUBJECT MATTER EXPERT(SME)- INTERNSHIP TRAINING**

**Language: English, Hindi**

**Duration: 106 Hrs.**

**1. Introduction to Chemicals:**

- Understanding the properties of chemicals.
- Differentiating between hazardous and non-hazardous substances.

**2. Regulatory Overview:**

- Familiarity with local and international regulations
- Responsibilities of employers and employees regarding chemical safety.

**3. Hazard Communication (HazCom) Standard:**

- Overview of hazard communication requirements.
- Labels and safety data sheets (SDS) interpretation.

**4. Chemical Classification and Labeling:**

- Understanding chemical hazard classifications.
- Interpreting chemical labels and warning symbols.

**5. Safety Data Sheets (SDS):**

- Learning how to read and interpret SDS.
- Understanding the information provided on an SDS.

**6. Personal Protective Equipment (PPE):**

- Selection and proper use of PPE.
- Training on specific PPE for different chemicals.

**7. Safe Handling and Storage:**

- Best practices for handling chemicals safely.
- Guidelines for proper storage of chemicals.

**8. Emergency Procedures:**

- Response to chemical spills and leaks.
- Evacuation procedures in case of emergencies.

**9. Exposure Control Measures:**

- Implementing engineering controls.
- Importance of ventilation systems.

**10. Chemical Hygiene Plan:**

- Developing and implementing a chemical hygiene plan.
- Integrating chemical safety into daily work routines.

**11. Training on Specific Chemicals:**

- In-depth information on the specific chemicals used in the workplace.
- Handling, storage, and emergency response for each chemical.

**12. Transportation of Hazardous Materials:**

- Guidelines for transporting chemicals safely.
- Compliance with transportation regulations.

**13. Waste Disposal:**

- Proper disposal of hazardous waste.
- Understanding waste disposal regulations.

**14. Incident Reporting:**

- Procedures for reporting chemical incidents and near misses.
- Importance of reporting for continuous improvement.

**15. Workplace Ergonomics:**

- Addressing ergonomic considerations when working with chemicals.
- Minimizing the risk of musculoskeletal disorders.

**16. Health Effects of Chemical Exposure:**

- Understanding short-term and long-term health effects.
- Monitoring and managing potential health risks.

**17. Review, Assessment and Project:**

- Review on the literature so far
- Assessments to ensure understanding of the material.
- Certification & Project (Optional)

Contact: S. Ramarao

Email:- [ramarao.s@nidhiprocesssafety.com](mailto:ramarao.s@nidhiprocesssafety.com)

Mob: +91 8457849898

Web:[www.nidhiprocesssafety.com](http://www.nidhiprocesssafety.com)