

### **Course Overview**



A Chemical Safety Awareness Course is designed to educate individuals about the potential hazards associated with handling and working with chemicals. The course aims promote а safe working environment and ensure that participants understand the necessary precautions to prevent accidents and injuries.

## **ENTRY REQUIREMENT**



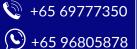
# **For Whom**



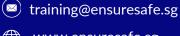
Chemical/lab personnel, safety personnel or employees who are involved in the handling of hazardous substances in chemical plants electronics. or manufacturing industries, Construction, and other industries.

Learners must be able to apply numbers, listen, read, speak & write English at a proficiency level equivalent to the Employability Skills System (ESS-Level-2)

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## **Course Objectives**



#### Module 1: Introduction to Chemical Safety

#### 1.1 Overview of Chemical Safety

- Importance of chemical safety
- Regulatory requirements

#### 1.2 Types of Chemical Hazards

- Chemical classifications (flammable, corrosive, toxic, etc.)
- Physical and health hazards

#### 1.3 Routes of Exposure

Inhalation, ingestion, skin contact, and eye contact

#### Module 2: Hazard Communication (HazCom)

#### 2.1 Hazard Communication Standard (HCS)

- Understanding safety data sheets (SDS)
- Labeling requirements

#### 2.2 Chemical Labels

- Interpretation of chemical labels
- · Symbols and pictograms

#### Module 3: Personal Protective Equipment (PPE)

#### 3.1 Selection and Use of PPE

- Understanding different types of PPE
- Proper use and maintenance

#### 3.2 Emergency Eyewash and Shower Facilities

Importance and proper usage

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## **Course Objectives**



#### Module 4: Safe Handling and Storage

#### 4.1 Storage Guidelines

- Segregation of incompatible chemicals
- Storage temperature and conditions

#### 4.2 Handling Procedures

- Techniques for safe chemical handling
- Spill response and cleanup

#### Module 5: Risk Assessment and Control Measures

#### 5.1 Risk Assessment

- Identifying potential risks
- Hazard analysis

#### 5.2 Control Measures

- Engineering controls
- Administrative controls

#### Module 6: Emergency Response

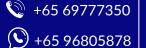
#### **6.1 Emergency Procedures**

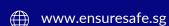
- Evacuation plans
- · First aid measures

#### 6.2 Fire Safety

- Fire prevention measures.
- · Proper use of fire extinguishers

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#### Module 7: Case Studies and Demonstration

#### 7.1 Real-life examples of chemical incidents

Analysis of incidents and lessons learned.

#### 7.2 Demonstrations of Equipment's

- Proper use of safety equipment
- Emergency response simulations

#### Module 8: Regulatory Compliance

#### 8.1 WSH Act, Singapore Standards and Guidelines

- Compliance requirements
- Inspections and audits

#### 8.2 Local and International Regulations

Understanding regional regulations

#### Module 9: Best Practices and Continuous Improvement

- 9.1 Establishing a Safety Culture
  - Employee engagement
  - Reporting and addressing safety concerns
- 9.2 Continuous Improvement
  - Regular reviews and updates to safety procedures

#### Module 10: Assessment and Certification

- Final examination Theory 30 MCQ
- Course completion certificate

This course should be adapted to the specific needs of the audience and may vary based on local regulations and industry-specific requirements. Additionally, incorporating interactive elements such as quizzes, discussions, and hands-on activities can enhance the learning experience.

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## **Course Fees**



\$150/-

## **Medium of Instruction**



**English** 

## **Trainer to Trainee Ratio**



1: 20 (Classroom)

## **Course Duration**



8 hours (Training 7 hours, Assessment 1 hour)

# **Attendance requirements**



100% Attendance

### **Assessment**



Written MCQ- Learner must achieve 60%

# Training Methodology – Blended Learning



Lecture Slides presentation, self-directed learning, e-learning, group discussion, presentation sharing of best practice and incident. Hands on practical session.

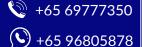
# **Passing marks**



Pass Criteria is 60%. MCQ, Short Answers & Case Study.

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## **Certifications**



Upon successful completion of the course a Certificate of Competency will be awarded by Ensure safe Consultancy Pte Ltd.

## **Course Venue**



No. 3 Soon Lee Street, #02-05, Pioneer Junction, S (627606).























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