



**Ensure Safe
Consultancy**

CHEMICAL SAFETY AWARENESS COURSE (CSAC)



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 to promote a safe working environment and ensure that participants understand the necessary precautions to prevent accidents and injuries.

ENTRY REQUIREMENT



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)

For Whom



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

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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/-

Course Duration



8 hours (Training 7 hours, Assessment 1 hour)

Medium of Instruction



English

Attendance requirements



100% Attendance

Trainer to Trainee Ratio



1: 20 (Classroom)

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).



 **Register**



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