

NFPA 472 HAZMAT AWARENESS & EMERGENCY HANDLING



CONTACT US ON:

T: +971 7 2042072 | Email: training@maestrouae.net

Website: www.maestrouae.net

TRAINING TITLE

NFPA 472 HAZMAT AWARENESS & EMERGENCY HANDLING

VENUE

Dubai, UAE

DURATION

5 Days

DATES

26 - 30 September 2021

PRICE

US\$4,000 per attendee including training material/handouts, morning/afternoon coffee breaks and Lunch buffet.

TRAINING INTRODUCTION

The storage and safe handling of chemicals and hazardous materials require compliance with a complex array of regulations and the use of specialized technical facilities, operations and equipment to ensure safe and proper management. This course provides a practical method of assessing the properties of chemicals and tracks the legislative framework that surrounds the safe management of these materials.

This course also provides practical guidelines for identification, segregation and movement of chemicals, as well as methods for the evaluation of facilities and specialized equipment necessary for the safe and effective storage and transfer of hazardous chemicals.

This course also comply with (NFPA) 472, Standard for Professional Competence of Responders to Hazardous Materials Incidents

TRAINING OBJECTIVES

The course will provide expert advice aimed at reducing the potential hazards and either removing risks or minimizing the potential consequences in the event of an incident.

It will develop provide a practical guideline for the evaluation and general design of operations used for the safe and effective storage and handling of chemicals.

It will cover a range of industrial scenarios. These practical case studies and exercises will provide the participants with the necessary knowledge and guides for right and safe handling of chemicals in petroleum sites.

TRAINING AUDIENCE

All site staff handling chemicals.

Material managers and facility operators who store or handle chemicals, Engineers with limited knowledge of chemicals and their properties, construction site managers, engineers and architects responsible for the design of facilities for hazardous materials management, personnel responsible for implementing training program and methods for hazardous chemicals, managers wishing to ensure compliance with applicable legislation and a reduction of risk for hazardous chemicals management, and safety personnel plus other people whose position in the company requires them to acquire this knowledge.

TRAINING OUTLINE

DAY 1:

➤ Introduction

(NFPA) 472, Standard for Professional Competence of Responders to Hazardous Materials Incidents.

Relevance of ISO 14001 EMS, and OHSAS 18001

➤ Identification, Classification and Properties of Hazardous Chemicals

- Hazardous Chemicals Definitions
 - Health Hazard
 - Physical Hazard
- Hazard Rating
- Hazard Classes
- Classification of Chemicals:
 - Methods of Classification
 - Solids, liquids, gases
 - Flammable & Explosive Chemicals
 - Inorganic and organic materials
 - Oxidants and reducing agents.

- Physical Properties of Chemicals
- Hazard Classification Systems

Fire Hazards

- Toxicity Hazard
- Corrosive Hazard
- Chemical Reactivity Hazard

DAY 2:

➤ Exposure Hazards & Health Effects Chemicals

- Overview
- Routes of Entry
- Acute Effects
- Chronic Effects
- Exposure Definitions, Limits & Calculations
- Health Effects of Chemicals
- Eyewash
- Emergency Shower
- Medical Consultation

DAY 3:

➤ Chemical & Hazard Labeling

- Overview
- Chemical Labeling
- Hazard Identification System
- Warning Systems

➤ Material Safety Data Sheet (MSDS)

- Overview
- MSDS Content

- How to Read MSDSs and Understand Them
 - Storage of Chemicals
- Overview Chemicals Compatibility
- Bulk Chemical Storage Facilities
- Storage of Flammable & Explosive Chemicals
- Storage of Compressed Gas & Cryogenics
- Specialized Storage Requirements
- Common Mistakes in Chemical Storage
- Case Study

DAY 4:

- General Rules & Precautions of Chemical Handling (GHS)
- Overview
- Work Practice Controls
- Basic Chemical Handling
- Handling of Compressed Gas
- Working Alone
- Standard Operating Procedures (SOP)
- Fire Precautions
- Warning Notices & Security
- Good Housekeeping

DAY 5:

- Personal Protection
- Personal Protective Equipment (PPE) and Clothing
- Introduction
- Selection Criteria
- Equipment / PPE Use

- TRANSPORTATION OF CHEMICALS

- Overview
- Legislative requirements
- Labels, Marking and Placards for packages, trucks and large containers
- Containers
 - Types
 - Basic Design and Main Properties
 - Inspection of Containers
- Loading and Unloading

Compressed Gas Cylinder Transportation

- Emergency Response
- Chemical Waste Disposal
- Hazardous Chemical Waste Disposal Policy
- Chemical Safety
- Chemical Waste
- Basic procedures
- Containers
- Container condition
- Container volumes & sizes
- Labeling of containers
- Disposal of empty containers
- Storage of waste chemicals
- Bulking or mixing of waste chemicals

➤ Chemicals Spill Response

- Chemical Spills
- Minor Chemical Spills
- Emergency Chemical Spills

- Spill of Solid, Liquid and Volatile Chemicals and Cleanup Procedures
- Leaking Compressed Gas Cylinders & Vessels
- Spill response equipment (contents, materials, compatibility, size, capacity, backup, placement locations)
- Spill Contingency Plan
- Release of Toxic Gases

TRAINING CERTIFICATE

MAESTRO CONSULTANTS Certificate of Completion for delegates who attend and complete the training course

METHODOLOGY

Our courses are highly interactive, typically taking a case study approach that we have found to be an effective method of fostering discussions and transferring knowledge. Participants will learn by active participation during the program through the use of individual exercises, questionnaires, team exercises, training videos and discussions of “real life” issues in their organizations. The material has been designed to enable delegates to apply all of the material with immediate effect back in the workplace.