



PST TRAINING (PTY) LTD

PST Training (Pty) Ltd

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Hazardous Chemical Handling

Overview

The Hazardous Chemical Handling course equips learners with the knowledge and practical skills required to work safely in environments where hazardous chemicals are transported, stored, used, and disposed of. Exposure to hazardous chemical substances (HCS) presents significant risks to health, safety, and the environment if not properly managed.

This course focuses on identifying chemical hazards, understanding routes of exposure, applying appropriate control measures, and complying with legal and organisational requirements. Learners will gain a practical understanding of safe handling practices, storage requirements, emergency response procedures, and the documentation necessary to support regulatory compliance.

Course Objectives

On completion of this course, delegates will be able to:

- Identify hazardous chemical substances and associated risks
- Understand routes of chemical exposure and their effects on health
- Apply appropriate control measures when working with chemicals
- Interpret chemical labels, symbols, and safety data sheets (SDS/MSDS)
- Comply with legal requirements for hazardous chemical handling
- Apply safe storage, handling, transportation, and disposal practices
- Respond appropriately to chemical-related emergencies

Course Prerequisite

- Communication: ABET / NQF Level 3 or equivalent
- Mathematical Literacy: ABET / NQF Level 3 or equivalent
- Copy of ID document (required for registration and certification purposes)
- English proficiency sufficient to engage with training materials

Language of Delivery

English

Delivery Methods

The course is facilitated by a competent subject matter expert using a combination of:

- Interactive discussions
- Practical demonstrations and exercises
- Case studies and workplace scenarios
- Role plays and group activities
- Video and slide presentations
- Written questions and knowledge checks

Training & Evaluation

- Training conducted on a 70% theoretical and 30% practical basis
- Continuous evaluation throughout the course

Who should attend?

This course is suitable for individuals working with or responsible for hazardous chemicals, including:

- Employees who handle hazardous chemicals
- Supervisors and Line Managers
- Health & Safety (SHE) Representatives
- Safety Officers and Coordinators
- Maintenance and Production Personnel
- Contractors working with hazardous substances
- Managers responsible for chemical safety controls

Course Outline

This course consists of the following 5 modules

Module 1	Introduction to Hazardous Chemicals and Exposure Risks • Physical characteristics and appearance of chemicals • Types of chemicals: • Natural and synthetic • Solids, liquids, and gases • Incompatible substances • Routes of chemical exposure and entry into the body • Health effects of chemical exposure
Module 2	Chemical Hazards, Classification, and Risk Control • Classes of hazardous chemical substances • Obvious and hidden HCS hazards • Cause-control-consequence chain • Hierarchy of controls for chemical risks • Risk assessment principles related to chemical handling

Module 3	Legal Requirements, Compliance, and Medical Surveillance • Legal framework governing hazardous chemical substances • Employer and employee responsibilities • Requirement to conduct HIRA and occupational hygiene assessments • Medical surveillance and biological monitoring • Rights and responsibilities relating to medical examinations • Compliance documentation, records, and registers
Module 4	Safe Storage, Labelling, and Chemical Management • Receiving and storage of hazardous chemicals • Storage facilities, containers, cabinets, and gas cylinders • Identification of hazardous chemicals: • Manufacturer labels • Signs, symbols, and colour coding • Re-labelling requirements • Incompatible substances and segregation • Disposal and recycling of hazardous chemical containers
Module 5	Safe Work Practices, PPE, and Emergency Response • Safe handling practices: • Transferring, decanting, and refuelling • Handling and filling cylinders • Transportation of hazardous chemicals • Process Safety Management (PSM) principles • Personal Protective Equipment (PPE) and respiratory protection • Emergency preparedness: • Spill kits and emergency plans • Chemical spills and leaks • First aid for chemical exposure (eyes, skin, inhalation) • Eye-wash stations and emergency showers

Additional Information

Duration	1 Day	
Includes	• Comprehensive Training Manual • Lunch & Refreshments (not applicable to on-site / online training) • SAIOSH Accredited (2 CPD Credits/Points)	• Electronic Certificate (on successful completion) • Electronic Delegate Feedback Questionnaire