

Learning Topic: Technical (Plant Processes & Operations).

Course Name: Safety in Industrial Plants (Part II)

Reference Code: PLOP 118

Course Overview:

This course is one of the basic training courses for any operation staff member.

This safety program is specially designed to teach the basics of safety in petrochemical plants. The program is in two parts.

Part 1 course will cover hazards in the workplace, their effect on your health and safety, how to deal with them and protect yourself.

Part II course will cover how to use personal protective equipment and how to use fire extinguishers to extinguish fires.

All the information in this program are necessary and very important to human health, so they have to be remembered when performing job tasks inside industrial plants.

Course Objectives:

By the end of the program participants are expected to:

1. Understand the existing hazards in chemical plants
2. Take prevention controls to eliminate hazards in your workplace.
3. Follow safety rules in your workplace
4. Read material safety sheets (MSDS)
5. Prevent fires in the workplace
6. Understand the dangers and risks of chemicals.
7. Prevent accident and act safely all the time

Training Methodologies:

The training methodology is interactive and is suitable for all employees involved in maintenance and operations management enhancing the following:

- Pre-test and Post-test
- Variety of Learning Methods & examples
- Presentation
- Lectures
- Group Work

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Who should attend?

Operation engineers

Operations technicians

Operators

Maintenance technicians

Any interested plant personnel in maintenance, stores, warehouse, safety, procurement, logistics...etc.

Training Outline:

Day 1:

Course Introduction

Lesson 3: CHEMICAL SAFETY

What are Dangerous Goods?

Four Hazard Parameters (NFPA)

Classes of Dangerous Goods.

Day 2:

Lesson 4: ENVIRONMENTAL HAZARDS

Examples of Job Hazards

Ergonomic Hazards

Day 3:

Lesson 5: FIRE PROTECTION

Elements of Fire

Fire Protection Equipment

How to Use a Fire Extinguisher

Day 4:

Lesson 6: PERSONAL PROTECTIVE EQUIPMENT

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Foot Protection

Respiratory Hazards

Hearing Protection

Eye and Face Protection

Head Protection

Lesson 7: ACCIDENT PREVENTION

Domino's Theory of Accident Causation

Multiple Causation Theory

Accident Prevention

Day 5:

Hazard Identification

Job Hazard Analysis (JHA)

Hazards Management (Control)

Course Conclusion

Duration: 5 Days

Venue:

Numbers of hours: 30 Hours

Time: 08:00 AM -02:00 PM

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