

Learning Topic: Technical (Plant Processes & Operations).

Course Name: Process Chemistry

Reference Code: PLOP 112

Course Overview:

This course is one of the basic training courses for any operation staff member. The course is concerned with the application of the principles of chemistry that relate to processing operations. Chemistry is the science that explores and explains the composition, structure, and properties of substances and the reactions that they undergo. Training in this subject is important because as an operation personnel, you observe chemistry in action in your processing plant on a daily basis. You are controlling chemical processes in a specified manner to efficiently produce the desired product. In this course, you will learn about the states and properties of matter. You will also learn about chemistry dynamics and chemical reactions. In addition, the chemistry of acids and bases will be discussed. Finally, you will be introduced to fundamentals of organic chemistry

Course Objectives:

Applying the concepts taught in this training course, delegates will be able to:

1. Describe the states and properties of matter.
2. Describe chemistry dynamics.
3. Describe chemical reactions.
4. Describe acids and bases.
5. Describe organic chemistry.

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 stores, warehouse, safety, procurement, logistics...etc.

Training Outline:

Day 1:

Course Introduction & Lesson 1: States and Properties of Matter

Day 2:

Lesson 2: Chemistry Dynamics

Day 3:

Lesson 3: Chemical Reactions

Day 4:

Lesson 4: Acids and Bases & Lesson 5: Organic Chemistry

Day 5:

Lesson 5: Organic Chemistry continued & Course Conclusion

Duration: 5 Days

Venue:

Numbers of hours: 30 Hours

Time: 08:00 AM -02:00 PM

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