Training Title

SEPARATION TECHNIQUE IN OIL/PETROLEUM INDUSTRIES

Training Duration

5 days

Training Venue and Dates

REF PE050	Separation Technique in Oil/Petroleum Industries	5	19-23 December 2021	$4,500	Dubai, UAE

Training Fees

4,500 US$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

TRAINING OVERVIEW

TRAINING METHODOLOGY

A highly interactive combination of lecture and discussion sessions will be managed to maximize the amount and quality of information, knowledge and experience transfer. The sessions will start by raising the most relevant questions, and motivate everybody finding the right answers. The attendants will also be encouraged to raise more of their own questions and to share developing the right answers using their own analysis and experience.

All attendees receive a course manual as a reference.
This interactive training workshop includes the following training methodologies
30% Lectures
30% Workshops and work presentation
20% Group Work& Practical Exercises
20% Videos& General Discussions

WHO SHOULD ATTEND?

This course is designed for Junior Engineers, Senior Operators, and Operators who are working in Oil Production Facilities and Oil Refineries.

Technical personnel involved in the activities of oil desalting. Specifically, technical, operations and maintenance personnel who had limited exposure to this area, or

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professionals involved in other areas of the gas/oil industry who require a comprehensive overview of natural gas processing will find this course ideally suited for them.

DAILY OUTLINE
The following topics will be covered in 5 days

Course Contents

Introduction

1.2 Separation Process

1.3 Principles of Separation
- **1.3.1 Gravity Separation**
- **1.3.2 Separation System Problems**
- **1.3.3 Factors Affecting Separation**

1.4 Phases Separation
- **1.4.1 Primary Separation**
- **1.4.2 Secondary Separation**
- **1.4.3 Mist Extraction**
- **1.4.4 Liquid Accumulation**
- **1.4.5 Oil and Water Separation**

1.5 Terminology and Applications:
- **1.5.1 Vessels Terminology**
- **1.5.2 Separator Application**

1.6 Stage Separation

1.7 Separators Classification
- **1.7.1 The Vessel Shape**
- **1.7.2 The Number of Fluids to be Separated**

1.8 Separator Internals
- **1.8.1 Inlet Configuration**
- **1.8.2 Intermediate Configuration**
- **1.8.3 Outlet Configuration**

1.9 Separator Sizing
- **1.9.1 Definitions**
- **1.9.2 Sizing Knock Out Drum**
- **1.9.3 Sizing Liquid Accumulators**

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2.5.6 Way of Introducing Feed

2.5.7 Reboiler

2.6 Troubleshooting Operating Problems

2.6.1 Flooding

2.6.2 Dry Trays

2.6.4 Damaged Trays

2.6.4 Water in Hydrocarbon Column 4.6.5 Foaming

2.6.6 Condenser Fogging

2.6.7 Suspect Laboratory Analysis

3.7 Glossary

NOTE:

Pre & Post Tests will be conducted

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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