Training Title:
BASIC OPERATIONAL TROUBLESHOOTING OF GAS & CRUDE PROCESSING UNITS

Training Duration:
5 Days

Training Venue and Dates

REF PE051	Basic Operational Troubleshooting of Gas & Crude Processing Units	5	18-22 August 2025	$6,000	Singapore

In any of the 4 or 5 star hotel. Exact venue will be informed soon.

Training Fees

- **$6,000 per participant for Public Training including Course Materials/Handouts, Tea/Coffee, Refreshments & Lunch**

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

TRAINING OVERVIEW

TRAINING INTRODUCTION

This course will cover how to establish and apply a general troubleshooting methodology as well as how to conduct process/equipment specific troubleshooting. Definitions of good/normal performance will be discussed for each process/equipment type covered. Data gathering, validation and utilization procedures will be discussed. Criteria to use when evaluating possible problem solutions will also be covered. Real-world exercises will be utilized throughout the class to reinforce the learning objectives. Both onshore and offshore facilities will be discussed. It is assumed that course participants have a solid understanding of how typical oil and gas production, and processing facilities work, including the commonly used processes and equipment involved.

TRAINING OBJECTIVES

By the end of this course, participants will be able to understand.

- **Troubleshooting methodology fundamentals and data reconciliation**
- **Gas - Liquid separators**
- **Reciprocating compressors**
- **Amine gas sweetening**

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- Glycol dehydration units
- 3-phase separators
- Centrifugal pumps
- Oil treating
- Produced water treatment systems.
- Shell and tube heat exchangers
- Centrifugal compressors
- Molecular sieve dehydration units
- NGL recovery processes

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivate everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of the multiple-choice type will be made available on a daily basis to examine the effectiveness of delivering the course.
All presentations are made in excellent colorful power point. Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work& Practical Exercises
- 20% Videos& General Discussions

WHO SHOULD ATTEND?

Process/Facilities engineers with 5-10 years of experience, facilities engineering team leaders/supervisors, and senior facilities operational personnel.

DAILY COURSE OUTLINE

- The difference between troubleshooting, optimization, and debottlenecking
- How to recognize trouble when it is occurring
- How to develop a methodical approach to troubleshooting
- To recognize how different components of a facility interact with each other, and the significance of these interactions.
- How to gather, validate, and utilize the data needed for troubleshooting
- The criteria to be considered for identifying the best solution when several feasible solutions are available.

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- **Typical causes of problems, and their solutions, for the main types of processes and equipment used in the upstream-midstream oil and gas industry.**

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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