

PROCESS OPERATION PLANT AND TROUBLESHOOTING

PRE008

COURSE DESCRIPTION

The increase in the size and complexity of facilities of process operations has resulted in maintenance being accepted as an important mainstream function in oil and gas companies.

This course provides the participants with the means to properly operate and support the facilities of process operations in a way based on the good acquaintance with the modern technologies applied in this field.

COURSE GOAL

To enhance the participants' knowledge, skills and ability necessary to understand various aspects and key risks of the oil & gas production operations process and troubleshooting.

COURSE OBJECTIVES

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

- Be familiar with safety in process operations.
- Understand CRU Process.
- Define troubleshooting.
- Identify the steps of troubleshooting.
- Understand concepts of open and closed loop control, feedback control.
- Learn the fundamentals of drawing interpretation.
- Acquire practical tools that can apply on the job.

WHO CAN BENEFIT

- Oil and Gas Production Field Personnel.
- Operations and Maintenance Supervisors.
- Technician and Support Engineers.
- Safety and any support staff that has an interest in increasing their understanding of Oil and Gas Operations.

COURSE DURATION

5 Working Days

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COURSE OUTLINE

1. Safety In Process Operations

- Introduction to safety.
- Safety management.
- Chemical hazards.
- Process hazards.
- Fires and explosions.
- Pressure relief systems.
- Confined spaces & gas monitoring.
- Personal protective equipments.
- Definition of troubleshooting.
- Steps of troubleshooting.
- Sources of information.

2. CRU Process & Troubleshooting

- Introduction to LPG.
- Process & equipment description.
- Troubleshooting of CRU operations.

3. Desalter & Dehydration Plant Process & Troubleshooting

- Introduction to forms of water associated with produced water.
- The desalting & dehydration process.
- Troubleshooting of desalter & dehydration operations.

4. Instrument Air System

- Get exposure on instrumentation basics.
- Compressor main parts.
- Instrument air route.
- Understand concepts of open and closed loop control, feedback control.

5. Engineering Drawing and P&ID

- Learn the fundamentals of drawing interpretation.
- Drawing elements and general dimensions.
- Acquire practical tools that can apply on the Job.