Troubleshooting Oil Processing Facilities - PF-49O

COURSE

About the Course

This course will cover how to establish and apply a general troubleshooting methodology as well as how to conduct process/equipment specific troubleshooting related to oil production and processing facilities. 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 production and processing facilities work, including the commonly used processes and equipment involved. This course will not provide in-depth coverage of fundamentals.

Target Audience

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

You Will Learn

- 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
- Typical causes of problems, and their solutions, for the main types of processes and equipment used in upstream/midstream oil production and processing operations

Course Content

- Understanding the similarities and differences between troubleshooting vs optimization vs debottlenecking

- Types of oil production and processing facilities
- System trouble vs component/equipment-specific trouble
- Defining good/normal operation
- Quantifying the cost of the trouble
- Gathering, validating, and utilization of data (types of data, sources of data, data quality and validation, using the data)
- Fundamentals of root cause analysis and methodology
- Developing a step-by-step troubleshooting methodology/flowchart
- Identifying the best solution (criteria for defining best)
- Processing and major equipment modules covered include gas-liquid separation, oil-water separation, oil treating and desalting, oil stabilization and sweetening, oil storage and vapor recovery, produced water treating, centrifugal pumps, and water injection

Product Details

Categories: Midstream

Disciplines: Process Facilities

Levels: Intermediate

Product Type: Course

Formats Available: In-Classroom Virtual

Instructors: Peter Williams Mark Bothamley

In-Classroom Format

16 Sep '24 20 Sep '24 - | Course | In-Classroom (in London) $5,585.00