



## Troubleshooting Oil and Gas Processing Facilities - PF-49

### 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. 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.

For public delivery, we have broken this course down to better address either oil or gas:

[Troubleshooting Gas Processing Facilities - PF49G](#)

[Troubleshooting Oil Processing Facilities - PF49O](#)

*"Well presented, well explained, good use of diagrams, good range of content. Regular breaks called at the right time to keep focus."* - Participant, United Kingdom

#### 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 the upstream-midstream oil and gas industry

## Course Content

- Troubleshooting methodology fundamentals and data reconciliation
- Gas - Liquid separators
- Reciprocating compressors
- Amine gas sweetening
- Glycol dehydration units
- 3-phase separators
- Centrifugal pumps
- Oil treating
- Produced water treating systems
- Shell and tube heat exchangers
- Centrifugal compressors
- Molecular sieve dehydration units
- NGL recovery processes

## Product Details

Categories: [Midstream](#)

Disciplines: [Process Facilities](#)

Levels: [Intermediate](#)

Product Type: [Course](#)

Formats Available: [In-Classroom](#)

Instructors: [Peter Williams](#) [Mark Bothamley](#)