Refining and Petrochemical Process Plant Problem Solving - DTC

COURSE

About the Course

The Process Plant Problem Solving Course interactive workshop is designed for groups involved in troubleshooting manufacturing facilities in the process industry and for introducing industry best practices in problem solving. The course focus on resolving process facilities issues such as unit capacity, quality, and reliability. The course, ideally suited for engineers in the operations support roles as well as for the lead operators, provides hands-on training to create a common language and a working knowledge of effective problem-solving techniques.

The course emphasizes the principles of effective problem solving:

- Defining the sequence of events
- Formulating a theoretically correct working hypothesis
- Providing a means to test the hypothesis
- Providing a foolproof means to eliminate the problem

Target Audience

These workshops are designed for individuals and teams desiring a working knowledge and understanding of this best practice approach to problem solving. The goal is to have trained participants to be able to work much more effectively with experienced operations support engineers and operators, thus enabling a focus on quality and creativity in the process. Recommended audience includes:

- Fresh Engineers
- Engineers moving to operations support positions
- Operations support engineer
- Applications Engineers
- Lead Operators
- First line operations supervisors
- Operations Manager

You Will Learn

- Significance of daily monitoring
- Setting monitoring trigger points
- Best practices for verifying process data
- Conducting successful plant tests

- Key steps of problem solving
- Simplifying and optimizing solution
- Organizational communication best practices in problem solving mode
- Prioritizing managerial objectives in trouble shooting phase
- Application to hydraulics
- Application to fractionators
- Application to heat exchangers & reactors
- Application to unsteady state & batch processes
- Utilization of software & manual computations
- Application to real life problem

Course Content

- Introduction
- Limitations of unstructured approaches
- Successful Plant Problem Solving
- Case Studies
- Hypothesis Development
- Verification of data
- Plant test
- Unsteady state
- Pumps and Compressors
- Team Exercise
- Franctionation and Computation
- Heat exchangers and kinetically-limited process

Product Details

Categories: Downstream

Disciplines: Refining

Levels: Foundation

Product Type: Course

Formats Available: In-Classroom

Instructors: