



Amine Treating & Sour Water Stripping

Consultant / Trainer:

Egbert van Hoorn & Frank Oehlschlaeger

The key objective of the course is to provide understanding, raise awareness and guidance to refinery staff in the field of amine treating and sour water stripping. The content of this course will enable staff to optimize unit operation, troubleshoot upsets as well as to provide them with design awareness.

Participants

This **Petrogenium** course can be tailored for awareness/inexperienced staff, for intermediate and for experienced personnel. Furthermore the course can be customized for a specific refinery, plant or unit. The option for post-course consultancy/help-desk support is also available.

Participants may include: operational staff and process engineers who are involved in operation, supervision or maintenance of Amine and Sour Water Stripping units.

The duration of the course is flexible. 1.5 days is the minimum although this can be extended to 3 days dependent on the client: the programme example given is for 2 days, the most common length. Operator training will typically be limited to 2 days.

Learning Objectives

- To understand the process principles in Amine Treating and Sour Water Stripping
- The purpose of the process units in the refinery
- To understand the Unit Equipment, Column Internals, Unit operation and Monitoring
- To interpret Amine analysis
- The process control steering of the unit
- How to handle the degradation of Amine solvents and Heat stable salts
- Troubleshooting

Programme

Day 1

Introductions, Course Objectives and Expectations

- Process Principles
- Amine Chemistry and Selection
- Equipment Review
- Design Parameters and Operating Conditions
- Amine Analysis

Day 2

- Process Control
- Loss Reduction and Foaming Control
- Corrosion Control and Case Studies
- Filtration
- Degradation of Amine Solvents and Heat Stable Salts
- Review of the Actual Refinery Operation
- Sour Water Stripping