

## Caustic & MEROX treatment.

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The Petrogenium Caustic and MEROX Treatment training provides unique insight into the design and operation of Sulphur Recovery and Tail gas treating units. Over many years the Petrogenium experts have gathered deep technical expertise in caustic treatment and processes. This knowledge and resulting best practices built the foundation for the course.

### 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: Experienced operators; Unit and responsible engineers; in Downstream Refinery, Upstream Oil and Gas or LNG establishments.

The duration of the course is flexible. 1 day is the minimum although this can be extended to 2 or 3 days dependent on the client: the programme example given is for 3 days. Operator training will typically be limited to 2 days.

### Learning objectives

The seminar time and content can be adapted to client requirements because of its modular concept. It can be given in one, one-and-a-half, two or three days, dependent on the subjects of interest for the client. The best results are gained with the inclusion of client operating data and problems into the discussions and exercises.

## Programme

### Day 1

Introduction

Caustic treating principles

Caustic treating for H<sub>2</sub>S removal and prewash

Amine H<sub>2</sub>S extraction of LPG fractions:

- Importance for pretreatment

- Reduction of caustic consumption

- Main operation points

Mercaptan extraction from LPG fractions:

- MEROX® process

- THIOLEX® process

Mercaptan extraction from condensate fractions

Exercise on understanding

### Day 2

Mercaptan extraction from light gasoline fractions

Equipment Review for extraction of RSH

Required analysis and schedule

Troubleshooting operational problems

Mercaptan sweetening of normal gasoline fractions:

- Traditional sweetening process

- Minalk® process

- Mericat® process

- Caustic free process

Required analysis and schedule

Troubleshooting operational problems

Exercise on understanding

### Day 3

RSH sweetening of Kerosene fractions

- Traditional UOP fixed bed process

- Modern UOP fixed bed process

- Mericat J® process

- Caustic free process

Required analysis and schedule

Troubleshooting operational problems

Exercise on understanding

Minimizing caustic disposal

Caustic neutralization and oxidation

Summary

*Because Experience Matters*