

# Caustic & MEROX treatment

Consultant / Trainer  
**Egbert van Hoorn**



The **Petrogenium**. Caustic and MEROX Treatment training provides unique insight into the design and operation of Caustic and MEROX 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
  - Main operation points
- 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
- 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
  - Minalk® process
  - Mericat® process
  - Caustic free process
- Equipment Review for extraction of RSH
- Required analysis and schedule
- Troubleshooting operational problems
- Mercaptan sweetening of normal gasoline fractions:
  - Traditional sweetening 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

## Why select Petrogenium.?

The above support will be provided by principal consultants with 30+ years world-class experience in the technology and hands-on know-how from operation of refinery units.

## Contact Petrogenium.:

Email: [training@petrogenium.com](mailto:training@petrogenium.com)

Website: <https://www.petrogenium.com/training/>

***Because Experience Matters***