

Petrogenium. Academy

Process Technology

Crude Oil Desalting

Consultant / Trainer

Jelle Bouma



The **Petrogenium. Crude Oil Desalting** course will guide the participants to develop key knowledge and techniques to select, design, operate and maintain the crude oil desalter in a refinery environment. This key knowledge can be utilized to make optimized design and operating decisions without endangering technical and operational integrity of downstream units. This training gives yourself and your employees the keys to successfully operate and understand the desalting process.



Participants

This **Petrogenium.** course aims at improving competencies of process technologists, inspection and corrosion engineers and operators, in terms of understanding the basics of crude oil desalting, contaminants to be removed and CDU Overheads corrosion control. It is also possible to benefit from an exclusive technical services arrangement from Petrogenium after the training. Participants can be from diverse spectrum of both young and experienced engineers. The training includes both theoretical and practical hands-on sessions. The training can also be structured to address specific issues faced by a particular refinery / operating unit.



Learning Objectives

Understanding of the desalting process in the refinery, enabling further optimization and trouble shooting:

- Explain the composition of crude oil.
- Identify the contaminants in crude oil and their effects.
- Explain the desalting process.
- Describe desalter problems and types of desalters.
- Explain the cause of corrosion in the crude distillation unit (or CDU) overheads and how to control it.

Programme

DAY 1

Composition of crude oil

- Oil composition
- Contaminants to be removed

Crude oil Desalting

- Desalting steps
- Desalting process
 - Crude tank
 - Demulsifier
 - Wash water
 - Preheat exchanger
 - Brine recycle
 - Mixing valve
 - Static mixer
 - Desalter vessel
 - Types
 - Emulsions and interface control
 - Mudwash

DAY 2

CDU Overhead section and corrosion control

- Caustic addition
- Neutralisers
- Filming amines

Case Study

Summary and assessment (Menti)

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

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

Because Experience Matters