



**T R A I N I N G**

**AWA01: Introduction to Refining**

*Crude refining industry exists already for many decades, and is the main supplier of global energy for various applications. It is a lucrative business where many parameters have direct and indirect impact on the revenue and profit of the refiner. Crude refining requires special conversion processes and blending processes to come to the right product. Of course safety is a priority!*

## Course Objective

The program designed for **technical and non-technical employees** gives basic understanding on petroleum products and the refining processes to produce them. Next to product and processes, the main HSSE-aspect of petroleum refining and an introduction to refining economics is on the program.

What will be covered:

- Crude: what is it and differences crude sources
- What are the main specifications of refinery products
- How a refinery works
- The main HSSE aspects in refining
- What impacts the profit of a refinery

This **theoretical** course gives an introduction and overview of several topics in the petroleum business. The trainers are KPI professionals, active for many years in refining, product quality and research. The course presentations are alternated with movies and exercises.

## Practical

Course duration:	2 days
# Participants:	max. 20
Location:	on request

## Course Modules

### Module 1: Refinery Products

This module is the core of the course and gives the participant a basic understanding of all the major refinery products, their typical characteristics and their application in the market:

- Fuels: LPG, jet fuel, diesel, gasoline, marine fuel
- Petro chemicals: Naphtha
- Bitumen
- Lubricant oil

### Module 2: Crude Oil Refining

Crude oil is found in different places around the world. The first module of the course will cover questions like “what is crude oil”, “what are the differences” and “what is typical for Kuwait Crude”. Furthermore, the participant will get an overview a refinery, different types of refineries and the most common units.

### Module 3: HSSE aspects

Oil refining operations require high temperatures and high pressures. The products are mostly toxic, flammable and must be handled with care. Next to processing, these liquids need to be stored in a safe way. This module touches the basics of safety management in a refinery and product storage.

### Module 4: Refining economics

The profit of a refinery is depending on many parameters like *for instance* market developments, crude selection, process selection and crude logistics. This module gives an introduction on the main aspect that influence the economics of a refinery

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shared by our experts*

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