

# Hydrotreating Processes

A Eurotek training course



## ERS Hydrotreating Processing

### An introduction:

The ERS Hydrotreating course is a comprehensive core skills course for professionals dealing with all aspects of Hydrotreating units. The course will be highly valuable to all engineers involved in the operation, design and troubleshooting of Hydrotreating facilities.

Additionally, the course will be useful to any technical personnel wishing to gain a perspective of how Hydrotreating fits into the operation of a complete refining plant. Those who are experienced in other fields and seek a review of the fundamentals of Hydrotreating will also find this course most beneficial.

### Learning objectives:

Upon completion of this course, participants will have gained a solid understanding of the key elements associated with the design, operation and troubleshooting of Hydrotreating units.

This will include the impact of feed quality, catalyst, operating conditions and unit design on product qualities

In addition they will have gained some valuable insight into how to optimise, debottleneck and troubleshoot their Hydrotreating units.



### Who should attend?

ERS Hydrotreating is a comprehensive core skills course for professionals dealing with all aspects of the Hydrotreating units.

The course will be highly valuable to all engineers involved in the operation and design of Hydrotreating facilities.

Additionally, the course will be useful to any technical personnel wishing to gain a perspective of how Hydrotreating fits into the operation of a complete refining plant. Those who are experienced in other fields and seek a review of the fundamentals of Hydrotreating will also find this course most beneficial.

### Description:

The petroleum industry uses Hydrotreating as a primary process for quality improvement to meet final fuel specifications as well as feed preparation for many intermediate processing units. This course covers the core elements of Hydrotreating technology. Key variables that affect product yields and properties are described and their impact on the optimisation of the unit operation discussed.

A framework is presented for troubleshooting operating problems and, throughout this discussion; participants are encouraged to describe their specific challenges.

The scope of the course includes the core of most Hydrotreating problems and attempts to cover solutions useful to design and operating engineers.

Concerns associated with processing for clean fuels are covered.

This course will provide an overview of the diverse nature of the Hydrotreating processes, depending on the feedstocks used, products made and the environmental issues. It will address process integration issues, which are vital for economic viability.

The course is designed to complement and supplement material presented in other ERS training courses.

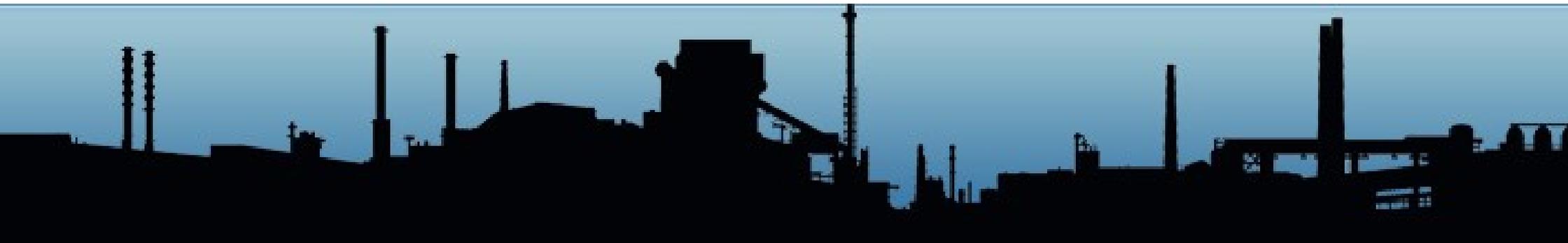


## Course Presenter

Jake Gotham is a director of InSite Technical Services. Jake is a chartered chemical engineer and fellow of the Institution of Chemical Engineers with more than twenty years' experience in the refining industry

His career has had a strong hydroprocessing focus, including periods directly responsible for the operation of hydroprocessing units, working in Chevron's central hydroprocessing group and CLG's hydroprocessing technology licensing group

His consulting activities with InSite have included overseeing the debottlenecking study of hydroprocessing assets, technology selection for hydroprocessing projects, pre-commissioning and start-up activities of several hydrocrackers and representing hydroprocessing licensors and catalyst suppliers with technical service activities.



## Course programme

### Day 1

- Introduction
- Chemistry
- Process configurations
- Catalysts
- Q&A Session for Day 1 Topics

### Day 2

- Kinetics
- Feed effects
- Process variables
- Q&A Session for Day 2 Topics

### Day 3

- Reactor internals
  - Product recovery
  - Shutdown guidelines
  - Catalyst changeouts
- Q&A Session for Day 3

### Topics

### Day 4

- Start-up guidelines
- Emergency guidelines
- Q&A Session for Day 4 Topics

### Day 5

- Monitoring & troubleshooting
  - Metallurgy & corrosion
  - Q&A Session for Day 5
- Topics





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