Clean Fuel Technology & Standards

05 - 09 Jan 2020, Dubai
11 - 15 Oct 2020, Dubai
Introduction

As refiners and chemical producers worldwide see higher crude oil and feed prices and continued demand for clean transportation fuels and lower production costs, a sound knowledge of clean fuel technology, specifications, standards, analysis, and quality monitoring is essential to understand its effect on engine performances as well as the emissions impact on environment.

This GLOMACS training course has been developed to provide an in-depth, yet a practical review of the art and science of “Clean Fuel Technology and Standards” in modern refineries. The program’s content is both comprehensive and wide-ranging.

In addition to the scientific procedures and contents of this course, many case studies and implementations are planned to be presented in an open discussion forum with the participants.

This GLOMACS training course provides both theoretical and practical knowledge and skills highlighting:

- Fuel quality fundamentals
- Fuel production technologies
- Euro 5 and Euro 6 fuel specifications
- Gasoline specifications
- Jet Fuel specifications
- Diesel specifications
- Fuel quality monitoring system

Objectives

At the end of this GLOMACS training seminar, you will learn to:

- Describe clean fuels chemistry, manufacturing technologies, and standards
- Compare testing parameters for gasoline, jet fuel, and road diesel
- Explain how fuel properties influence engine performance
- Explain ultra low sulfur diesel properties and their impact on fuel performance
- Troubleshoot quality problems and contamination of fuels
- Discuss fuel quality monitoring system

Training Methodology

A highly interactive combination of lecture and discussion sessions will be managed to maximize the amount and quality of information, knowledge and experience transfer. The sessions will start by raising the most relevant questions, and motivate everybody finding the right answers. The attendants will also be encouraged to raise more of their own questions and to share developing the right answers using their own analysis and experience.

Participants in this seminar will receive thorough training on the subjects covered by the seminar outline with the Tutor utilizing a variety of proven adult learning teaching and facilitation techniques.

Organisational Impact

- This course will emphasize clean fuels chemistry, manufacturing technologies, blending, distribution, handling and troubleshooting techniques that would lead ultimately to improved fuel utilization, optimization, and enhanced organizational economics
- Many aspects of clean fuel production operations and management can be improved including, product qualities, monitoring, and safety
- This course will guide the participants to develop key concepts and techniques for the refining of petroleum processes and clean fuel manufacturing economics. These key concepts can be utilized to make operating decisions that can improve the overall refinery performance and economics

Personal Impact

By attending this GLOMACS training course, you will be able to:

- Understand clean fuels chemistry, manufacturing technologies, and handling
- Increase fuel efficiency keeping safety as a prime consideration
- Improve On-Time performance while reducing operational expenses
- Conduct a “Fuel Efficiency” audit of your organization
- Develop Fuel Efficiency Program Evaluation tools

Who Should Attend?

This GLOMACS training course is suitable for a wide range of professionals but will greatly benefit:

- Operation Engineers
- Process Engineers
- Senior Operation Personnel
- Operation Staff
- Technical Supervisory Staff
- Plant Engineers
- Fuel Quality Specialists
- Measurement and Quality Control Operators
DAY 1

Introduction to Oil Refining and Fuel Quality Fundamentals
- Crude Oil Chemistry and Properties
- Classification of Crude Oils
- Crude Assays and Valuation
- Petroleum Product Specifications
- Petroleum Products Standardization and Quality Control
- Introduction to Oil Refineries
- Refinery Configurations

DAY 2

Gasoline
- Gasoline Chemistry
- Manufacturing Technologies: Naphtha Hydrotreater, Catalytic Reformer, Isomerization and Alkylation Units
- Gasoline specifications and Quality Monitoring System
- Testing Parameters for Gasoline
- Composition, Combustion Characteristics, Octane Number, Corrosiveness, Density, Flash Point and Fire Point, Oxygenates, Stability, and Instability. Volatility
- Effect of Fuel Properties on Engine Performance
- Troubleshoot Quality Problems and Contamination of Gasoline

DAY 3

Jet Fuel
- Jet Fuel Chemistry
- Manufacturing Technologies
- Jet Fuel Specifications and Quality Monitoring System
- Testing Parameters for Jet Fuel
- Acidity, Calorific Value, Density, Flash Point, Freezing Point, Storage Stability, Thermal Stability, Viscosity, Volatility, Water
- Effect of Fuel Properties on Engine Performance
- Troubleshoot Quality Problems and Contamination of Jet Fuel

DAY 4

Diesel Fuel
- Diesel Fuel Chemistry
- Manufacturing Technologies (Hydroprocessing)
- Diesel Fuel Specifications and Quality Monitoring System
- Testing Parameters for Diesel Fuel
- Acidity, Sulfur content, Appearance and Odor, Ash, Calorific Value, Carbon Residue, Cetane Number and Cetane Index, Cloud Point, Composition, Diesel Index, Flash Point, Freezing Point, Neutralization Number, Pour Point, Stability, Viscosity, Volatility, Water and Sediment
- Ultra Low Sulfur Diesel
- Effect of Diesel Fuel Properties on Engine Performance
- Troubleshoot Quality Problems and Contamination of Diesel Fuel

DAY 5

Euro 5 and Euro 6 Fuel Specifications and Emissions Standards
- Overview of Euro 5 and Euro 6 Fuel Specifications and Emissions
- Quality Control of Products in Petroleum Refining
- Clean Fuel Specifications
- Sampling Procedures
Clean Fuel Technology & Standards

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<thead>
<tr>
<th>Code</th>
<th>Date</th>
<th>Venue</th>
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<td>05 - 09 Jan 2020</td>
<td>Dubai</td>
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<tr>
<td>OG135</td>
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REGISTRATION DETAILS

LAST NAME:________________________________________
FIRST NAME:_______________________________________
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AUTHORISATION DETAILS

AUTHORISED BY:___________________________________

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COMPANY: ________________________________________
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PAYMENT DETAILS

☐ Please invoice my company
☐ Cheque payable to GLOMACS
☐ Please invoice me

CERTIFICATION

Successful participants will receive GLOMACS’ Certificate of Completion

4 WAYS TO REGISTER

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TERMS AND CONDITIONS

• Fees – Each fee is inclusive of Documentation, Lunch and refreshments served during the entire seminar.
• Mode of Payment – The delegate has the option to pay the course fee directly or request to send an invoice to his/her company/sponsor. Credit card and cheque payments are both acceptable.
• Cancellation / Substitution – Request for seminar cancellation must be made in writing & received three (3) weeks prior to the seminar date. A US$ 250.00 processing fee will be charged per delegate for each cancellation. Thereafter, we regret that we are unable to refund any fees due, although in such cases we would be happy to welcome a colleague who would substitute for you.
• Hotel Accommodation – is not included in the course fee. A reduced corporate rate and a limited number of rooms may be available for attendees wishing to stay at the hotel venue. Requests for hotel reservations should be made at least three (3) weeks prior to the commencement of the seminar. All hotel accommodation is strictly subject to availability and terms and conditions imposed by the hotel will apply.
• Attendance Certificate – a certificate of attendance will only be awarded to those delegates who successfully completed/attended the entire seminar including the awarding of applicable Continuing Professional Education Units/Hours.
• Force Majeure – any circumstances beyond the control of the Company may necessitate postponement, change of seminar venue or substitution of assigned Instructor. The Company reserves the right to exercise this clause and implement such amendments.
• Fair Access / Equal Opportunities – in the provision of its services as a world-class Training Provider, the Company is committed to provide fair access / equal opportunities throughout the delivery of its courses and assessment leading to the completion of training seminars, or 3rd party qualifications/certifications.

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