

3-DAY TRAINING COURSE

# REFINING BLENDING

8-10 March 2020 • Bahrain



## ABOUT THIS COURSE

Growing global competitiveness in the refining products' market requires an in-depth knowledge of fuel technology processes, global quality standards, and quality monitoring procedures. As the global market turns to clean fuels and more stringent specifications, the environment in which refiners operate is becoming more and more challenging.

This course offers a comprehensive overview of white and black products blending processes, covering refining processing and technology aspects, crude quality impact, specifications, quality giveaway, additives selection, blending economics, testing and troubleshooting. Additionally, the course gives a perspective on how the blending process fits into the operation of an integrated oil company. Case studies are used to illustrate the relative importance of each aspect of the blending process.

## BENEFITS OF ATTENDING

- Obtain a clear overview of processing background and how white and black products are produced and blended
- Understand the fundamentals of engine operation and emissions and importance of fuels in maintaining a good operation
- Understand the importance of specifications, their limitations and how to ensure that the product is fit for purpose
- Understand how additives are selected and used to meet the specifications for different products and markets
- The interpretation of laboratory results

# COURSE AGENDA

## DAY 1

- Introduction – energy outlook and demand
- Classification of fuels
- Basic fuel chemistry
- Alternative fuels
- Introduction to fuel specifications – primary and secondary importance properties
- Specification differences (EU, USA, Middle East, Asia...)
- Impact of crude oil quality on the quality of finished products
- Fuel blending technology – general principals
- Motor gasoline – introduction
- Gasoline specifications, general and specific
- Specifications – key quality elements (volatility, octane number, aromatics, oxygen content)
- Case study and group discussion – specifications and laboratory data – precision and dispute solving

## DAY 2

- Motor gasoline blending components – production and characteristics
- Concept of linear and non-linear blending
- Oxygenates
- Bio-component blending
- Additives and additives' selection
- Diesel fuel – introduction
- Diesel fuel – specifications, general and specific

## DAY 2 (cont..)

- Specifications – key quality elements – density, cetane number, winter cold flow properties
- Blending components – production and characteristics
- Technology background
- Bio-component blending
- Case study and group discussion – blending recipes, quality giveaway, linear and non-linear property calculation, bonuses, blending economics

## DAY 3

- Diesel fuel additives – role and selection
- Refinery and market additives
- Additives' selection process
- Cold flow properties – operability of diesel fuel and what is really on the market
- Additive compatibility – specific tests
- Case study and group discussion – additive selection process and compatibility of additives
- Marine fuels – classification
- Specifications and their development
- IMO regulation and its impact
- Production and blending
- Additives – role and selection
- Heavy fuel oils – classification
- Specifications
- Blending and stability
- Course summary and discussion

## WHO SHOULD ATTEND

- ✓ *Personnel from the oil, fuel, biofuel, additive and auto industries*
- ✓ *Refinery technical personnel*
- ✓ *Operative planning and scheduling specialists*
- ✓ *Trading and blending personnel*
- ✓ *Laboratory supervisors and technical personnel*
- ✓ *Sales, marketing and product trading personnel*
- ✓ *Market and research analysts*

## MEET YOUR TRAINER

### Sanda Telen, PhD

Associate Trainer, EPC

Dr Telen is an experienced manager with more than 25 years of operational experience in the downstream Oil & Gas industry. She is a recognised expert in conventional, biofuels and alternative fuels with extensive experience in crude selection process and formulation of finished products including product portfolio strategy, product quality road mapping and benchmarking. Sanda is a long time laboratory manager with comprehensive experience in laboratory processes, including financing, benchmarking, efficiency improvement and total quality management processes.



# FORMAT & TIMINGS

The course language will be English.  
The course is presented in a highly participative format. The trainer will start with some basic principles, requiring interaction and discussion with the delegates. Actual case studies, discussions and interactive analyses will ensure that the course content is both engaging and interesting.

Registration & coffee will start at 8:00am on Day One. The course will run for three days, starting daily at 8:30am and finishing at 4:30pm. There will be two coffee breaks and a seated buffet lunch on each day.

## TERMS & CONDITIONS

All of our training courses are subject to final confirmation. Full payment is required prior to the event.

Cancellations made on or before the cut-off date will be refunded in full less an admin fee of USD 250.

Cancellations made less than a month prior to the event cannot be refunded or credited.

Substitutions are welcome at any time.

## RESERVE YOUR PLACE

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Call us on +971 4 421 4642

Email us at [office@europetro-me.com](mailto:office@europetro-me.com)

*PLEASE NOTE: The Kingdom of Bahrain implemented Value Added Tax (VAT) on 1st January 2019. As soon as the UAE's Federal Tax Authority announces the treatment of implementing GCC states, there is likely to be a change in the pattern of taxation in our invoices in order to comply with the provisions of UAE tax regulations. Therefore, an additional invoice covering the VAT amount may have to be generated.*

### COURSE FEE

**USD 2,950**

per attendee

*inclusive of training materials,  
completion certificate, daily seated  
buffet lunch and refreshments*

### Available for In-house Training

Contact us  
to request a proposal

## EURO PETROLEUM CONSULTANTS



SHARING KNOWLEDGE,  
SHAPING BUSINESS

Euro Petroleum Consultants [EPC] is an independent consultancy and event organiser focusing on strategic and technical issues within the oil, gas and petrochemicals industry. Formed in 1996, headquartered in London and with offices in Dubai, Moscow, Sofia and Kuala Lumpur, our in-depth knowledge of the industry combined with extensive technical and commercial experience enables us to guarantee that all our events are delivered to the very highest standards.

Classroom led training courses are an important part of our event portfolio and we deliver courses across the globe on a wide range of both technical and management topics for the industry. Our network of trainers is made up of senior industry experts with "in the field" experience ensuring the highest level of knowledge transfer.

**Our training courses can be run both as public (multiclient) or in-house courses**

Contact us to request a proposal

**Ms JOANNA PAPA (Project Manager)**

Phone: +971 (0)4 421 4642 Email: [joanna@europetro-me.com](mailto:joanna@europetro-me.com)