

Organised by Global Technology Forum

Blending

10 – 12
March 2010

London
gtforum.com/blending



Key topics:

Product Specifications
Calculating the Properties
of Blends
Valuation of Blendstocks
Blending Technology
Performance Monitoring
Quality Giveaway
The Cost of Getting it Wrong

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Training
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Introduction

In order to comply with regulations and to optimise margins, refineries have to blend components of different qualities and values to meet stringent product specifications, without product 'giveaway'.

The relevance of product quality specifications will be covered in detail, along with calculation methods for estimating the qualities of blended products. This also includes gaining an understanding of the valuation of blendstocks and their relevance in producing products in the most economical way.

In addition the blending of biofuels with conventional components will be addressed, together with the different ways of blending at the refinery. Finally quality performance monitoring will be covered along with estimation of the cost of quality giveaway.

Who should attend?

ERTC Blending is a comprehensive core skills course for professionals dealing with all aspects of the refining industry.

The course will be highly valuable to all engineers involved in the design, operation and troubleshooting of refining facilities. Additionally, the course will be useful to any personnel wishing to gain a perspective on refinery production planning and how the blending of products fits into the refinery economics.

Learning objectives

Upon completion of the course participants should have a better understanding of why product blending is necessary, its importance in modern refining, and the impact on the economics of refining.

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Course description

Blending is important both as part of the planning process to decide how to operate the refinery and also as a means to combine components to meet the refinery manufacturing specifications. This needs to be done safely, efficiently and most importantly economically.

This course gives an overview of the elements of the blending process and

provides an insight into the calculation of the most economical blends. The future changes in product specifications will be discussed along with the implications for the refiner.

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





Course programme

Wednesday 10 March

Introduction and Objectives

Outline course objectives / Icebreaker to introduce delegates / Course methodology – interactive lectures, discussion, individual and group exercises

Introduction to Product Blending

Why blending of products is necessary and important, and its impact on the economics of refining / Significance of specifications, testing precision, blending margins / Concept of linear and non-linear blending

Fuel Oil Blending

European and Bunker fuel specifications / Fuel oil test methods, significance for fuel performance, and critical blending parameters / Concept of Blending Indices / Fuel oil stability

Exercise 1: Fuel Oil Blending and Economics

Determine the optimum fuel oil blend, and then calculating the cost of correcting the blend / Valuing all of the potential fluxes

Jet Blending

Jet specifications / Jet test methods and significance for fuel performance / How CDU cut points change flash and freeze points

Thursday 11 March

Diesel Blending

European and US specifications / Diesel test methods, significance for fuel performance and critical blending parameters / Additives to improve cold weather performance

Exercise 2: Diesel Blending and Economics

There's more to it than just sulphur / How much LCO can be blended into diesel?

Bio-Diesel

A threat or a promise? / Green diesel, GTL

What happens if you get it wrong?

Fuel Oil, Jet/Avgas, Diesel

Friday 12 March

Gasoline Blending

European and US Specifications / Gasoline test methods, significance for fuel performance and critical blending parameters / Oxygenates (MTBE and Ethanol) / US gasoline RBOB– will this happen in Europe?

Exercise 3: Gasoline Blending and Economics

Why is gasoline more difficult to blend in 2010 than in the past? / Calculate a blend to meet European spec gasoline when Ethanol is added at the depot

What happens if you get it wrong?

Gasoline

Feedstock blending

Why blend crude oil and how / Changing cutpoints vs blending components

Blending Technology in the Refinery

Software and systems for blending / Where does blend planning fit into the overall scheme / Tank farm hardware – Tank blending, in-line ratio control blending, in-line property control / Mixing, Sampling and analysis / Reblending and correcting

Performance Monitoring

If it's never off-spec then the margins are too big / The costs of quality giveaway and choosing the wrong components



Training course fee (per delegate)

For bookings received before 10 February 2010 Course Fee = **£1999 +17.5% VAT**
A late booking supplement of £300 +17.5% VAT will be applied to all bookings received after 10 February 2010

Reservation form

Please make a reservation for the following delegate:

Title	First name
<hr/>	
Surname	
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Position	
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Company	
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2010 Course listings

Blending

10 – 12 March 2010, London
www.gtforum.com/blending

Watertreating

17 – 19 March 2010, London
www.gtforum.com/watertreating

FCC

24 – 26 March 2010, London
www.gtforum.com/fcc

Sulphur Recovery Processes

24 – 26 March 2010, London
www.gtforum.com/safety

Introduction to Refining

April 2010, London
www.gtforum.com/introrefining

Distillation

5 – 7 May 2010, London
www.gtforum.com/distillation

Improving Refinery Profit Margins

May 2010, London
www.gtforum.com/refiningeco

Delayed Coking and Thermal Processes

June 2010, London
www.gtforum.com/delayedcoking

Hydrogen Production by Steam Reforming

June 2010, London
www.gtforum.com/hydrogenprod

Wastewater Treatment

September 2010, London
www.gtforum.com/wastewater

Crude Oil Desalting

September 2010, London
training@gtforum.com

Hydrocracking

October 2010, London
www.gtforum.com/hydrocracking

Catalytic Reforming

December 2010, London
www.gtforum.com/reforming

Asset Management

December 2010, London
training@gtforum.com

For more information, please visit the individual website listed above or send us an enquiry via training@gtforum.com



Course presenter

Michael Sachs, External Consultant.

Since 2002 Mike Sachs has been an associate consultant of KBC Process Consulting, and of CWA International Ltd, as well as an independent consultant to the petroleum industry, specialising in oil refinery and terminal operations.

He has given a range of training courses focused on tank farm operations. He has also acted as an expert witness in several civil cases involving potential operational negligence in oil refineries and terminals, including the high profile case of the Buncefield disaster in the UK in 2005.

From 1997 to 2002 he was a Vice President of KBC, acting largely in the same field. Prior to KBC, he was for 9 years General Manager of a European independent oil refinery, responsible for all aspects of the management of the corporation. Previously he spent 23 years with British Petroleum and 3 years with Statoil.

His wide experience includes Oil Refinery and Oil Terminal Operations, Planning, Engineering, Maintenance, Information Systems Development, Production Management, Business Development and General Management.





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For help with booking accommodation near the course venue, please contact Event Express via:

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