Production Planning & Scheduling in Petroleum Refineries

01 - 05 Apr 2018, Dubai
09 - 13 Dec 2018, Dubai
Introduction

This Production Planning & Scheduling in Petroleum Refineries training seminar is specifically designed to identify and resolve issues of production planning and scheduling in petroleum refineries that are most commonly encountered by refinery personnel working in this area. Issues of operations scheduling for petroleum refining are discussed in depth. The training seminar will be enhanced with practical planning and scheduling examples using both excel and proprietary planning and scheduling linear programming software.

In addition, Production Planning & Scheduling in Petroleum Refineries training seminar will provide relevant background information of the subject and will update refinery personnel on new technologies used in the field.

Organisational Impact

The organization will:

• Have a comprehensive understanding of the impact of Refinery Production Planning and Scheduling
• Learn how their competitors identify and improve issues related to planning and scheduling
• Know how to manage planning scheduling and blending errors more effectively and efficiently
• Gain insight of common and new techniques and software as well as key industry success factors

Personal Impact

By attending this training seminar, participants will:

• Gain understanding and practical insight of the basic concepts of Production Planning and Scheduling and its impact on the organization profitability
• Be equipped with the basic tools for understanding the complex nature of Production Planning & Scheduling in Petroleum Refineries
• Improve their level of personal knowledge of the techniques used in industry for blending and optimisation
• Be able to plan and develop techniques for improving custody transfers

Objectives

• Gain an appreciation of the planning and scheduling tools that will be useful for planning of crude and product deliveries
• Differentiate and appreciate the similarities and differences between planning and scheduling
• Understand the principles of scheduling optimization
• Learn the skills to crude selection and optimization that result in improved profitability
• Develop the skills necessary to apply blending techniques using excel and linear programming software

Who Should Attend?

All professionals involved in Production, Planning and Scheduling and anyone that wants to update themselves on the methods used in this important field and learn how to implement error free methods for the benefit of their organizations. Process Engineers and Technologists engaged in planning and scheduling activities and who are required to understand and discuss issues related to their industry.

• Operations Personnel including Shift Supervisors
• Marketers and Refinery Planners
• Blending Professionals
• Refining Technologists
• Other Engineers who would like a further understanding of the complex refining processes and their impact on refinery planning and scheduling
• Accountants, Marketers and other professions who would like understand the complexities and terminology of Production Planning & Scheduling in Petroleum Refineries

Training Methodology

The training seminar will be conducted with formal lectures, active participation and instructor led discussions. Short videos along with computer software and simulations, used by production planning and scheduling personnel, will ensure a thorough understanding of the topics introduced. Case studies will be provided to illustrate the application of planning and scheduling and will be re-enforced with practical exercises and ample opportunities for deliberation and sharing of experiences.
DAY 1

Application of Planning and Scheduling

- Overview of Planning and Scheduling in Oil Refineries
- Refinery Complexity
- Refinery Configuration
- Integrated Refineries
- Choice of Crude
- Crude Oil Scheduling
- Capacity Utilization of Crudes & Operational Efficiency
- Workshop - Cut-point Optimization

DAY 2

Improving Product Movements and Releasing Tankages

- Crude Assay
- Intermediate Feed Characteristics
- Yields and Properties
- Different Process Units
- Storage Tanks
- Custody Transfer / Measurements
- Class Exercises: Using Excel - Yield Optimization

DAY 3

Product Blending Rules

- Product Specifications
- New Trends in Fuel Production
- Environmental Issues
- Crude Oil Pricing Regimes
- Product Netback
- Class Workshop: Blending exercises

DAY 4

Refinery Flow Sheets

- Refinery Flow-sheets
- Simplified Material Balance
- Product Inventory Control
- Product Quality Control
- Fixed Composition Blend
- Capacity Control / Constraints
- Availability of Feedstock / Control
- Case Study: Gasoline Blending and Its Impact on Operations

DAY 5

Refinery Planning and Scheduling

- Petroleum Product Movement and Product Exchange
- Marginal Depot Supply and Movements
- Crude Selection Strategies
- Linear Programming and Fundamentals of Supply Chain Management for Refining
- Refinery Planning and Scheduling
- Discussion and Summary
Production Planning & Scheduling in Petroleum Refineries

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<th>Code</th>
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<td>OG009</td>
<td>01 - 05 Apr 2018</td>
<td>Dubai</td>
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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.
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