**Petroleum Refining-Production Planning, Scheduling & Yield Optimization**



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**Course Objective**

* Gain an appreciation of 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

**Target Audience**

* All professionals involved in Production, Planning and Scheduling
* 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
* Accountants, marketers and other professions who would like understand the complexities and terminology of Production Planning & Scheduling in Petroleum Refineries
* Anyone who wishes 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

**Course Outline**

* **Day One: 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 Two: 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 Three: Product Blending Rules**
* Product Specifications
* New Trends in fuel production
* Environmental Issues
* Crude oil pricing regimes
* Product Netback
* Class Workshop: Blending exercises

* **Day Four: 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 Five: 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
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| Price (USD) |
| Communicate with the training department  to know the participation fees   * There are offers and discounts for groups |
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