**New Technologies in Manufacturing Crude Oil**



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**Course Objective**

* To familiarize and understand the various refinery types and appreciate how refining complexity impacts refining optimization and refining margins
* Comprehend the importance quality giveaways and learn how use blending calculations to reduce these
* Use hands on software that allow professionals in the industry to choose different types of crude diets and thus optimize refinery utilization and efficiency
* Act as a primer into the industry of Petroleum Refining to maximize process fluid yields
* Familiarize industry professionals with all processes associated with the processing of petroleum into finished products
* Equip new engineers into the industry, with the basic tools for understanding the complex nature of Refining and its operations

**Target Audience**

* Refining engineers
* Operations personnel including shift supervisors
* Marketers and refinery planners
* Blending professionals
* Other engineers who would like a further understanding of the complex refining processes
* Accountants, marketers and other professions who would like to comprehend the advantages and limitations of the various refining processes at their site

**Course Outline**

* **DAY 1**
* Crude Oil Yields Refinery Technology
* Introduction to Crude Oil Origins & Characteristics
* Crude oil Assay and properties
* Crude oil products & Product specifications
* LPG
* Gasoline
* Kerosene/ Jet Fuel
* AGO / Diesel Fuel Oil
* Petrochemical Feedstocks
* Overall refinery flow: Interrelationship of processes
* **DAY 2**
* Petroleum Refinery Processes
* Crude Processing
* Desalting
* Atmospheric distillation
* Vacuum distillation
* Heavy Oils Processing / Bottom of the barrel upgrading
* Cocking and Thermal Processes
* Delayed Coking
* Fluid Coking
* Flexicoking
* Visbreaking
* Case study – example
* **DAY 3**
* Process for Motor Fuel Production
* Fluid catalytic cracking
* Hydrocracking
* Cat Cracking
* Isomerization
* Alkylation
* Hydrotreating
* Catalytic Reforming
* Case study – example
* **DAY 4**
* Supporting Operations
* Blending for Product Specifications
* Hydrogen production
* Refinery Gas Plants
* Acid Gas Treating
* Sulfur Recovery Plants
* Utilities
* Case study – example
* **DAY 5**
* Refinery Economics
* Residue Reduction
* Asphalt and Residual Fuel
* Refinery Complexity and Netback
* Economic Evaluation
* Cost Estimation
* Case Studies
* Group Discussions
* Program Evaluation & Summary
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