



**Asia Masters Center**

# New Technologies in Manufacturing Crude Oil



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## New Technologies in Manufacturing Crude Oil

### ➔ 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
- Coking and Thermal Processes
- Delayed Coking
- Fluid Coking
- Flexicoking
- Visbreaking
- Case study – example



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### ➤ 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



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- **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

### ➤ **The Feature Of Asia Master Training And Development Center**

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- we give the participant training bag includes all the necessary tools for the course.
- Working within groups to achieve the best results.
- All our courses are confirmed and we do not postpone or cancel the courses regardless of the number of participants in the course.
- We can assist you in booking hotels at discounted prices if you wish to book through us.
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- 3) Training.
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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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