



**Asia Masters Center**

## **Refinery Process Yields Optimization**



## Refinery Process Yields Optimization

### 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

➤ **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

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

- we pick up the customer from the airport to the hotel.
- 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.
- We offer the certificate from Asia Masters Center for Training and Administrative Development.

### ➡ **The Cost Of The Training Program Includes The Following:**

- 1) Scientific article on flash memory.
- 2) Training Room.
- 3) Training.
- 4) Coffee break.
- 5) The training bag includes all the tools for the course.

**Price (USD)**

**Communicate with the training department  
to know the participation fees**

➤ **There are offers and discounts for groups**

**The details of the bank account**

**Bank name: CIMB Bank Berhad**

**Account name: Asia Masters Center SDN. BHD**

**Bank account number: 80-0733590-5**

**Swift code: CIBBMYKL**

**IBAN: Null**