



**Asia Masters Center**

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





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

### **➔ 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



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- 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



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### ➤ **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

## ➤ **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.



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### 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