

A 4 Day Course on Fundamental of the Petrochemical Industry

Part 1: Ethylene and Its Derivates Part 2: Aromatics and Derivates

UTM City Campus, Kuala Lumpur, Malaysia



Utama: menghasilkan bahan-bahan piawai...

duration/4 days

date/3-6 July, 2006

Course Introduction

This two part program was designed to serve as a guide to understanding petrochemical industry.

Part 1 of the program focuses on one of the core building blocks of the petrochemical industry; ethylene and its derivatives. Sector covered include:

1. Ethylene Plants
2. Ethyl Benzene/Styrene Plants
3. Ethylene Oxide/Glycol Plants
4. Vinyl Chloride Plants
5. Ethanolamine Plants
6. Other Ethylene Derivates

Part 2 of the program focus on a second core building block of the petrochemical industry; aromatics and its derivatives. Sectors covered include :-

1. Catalytic Reformers
2. BTX Separation Plants
3. Xylene Separation Plants
4. Aromatics Derivates

Course Objectives

At the end of the course, the participants will :-

1. have a better understanding on the two key building blocks of the petrochemical industry.
2. also gain practical knowledge on the operations, control and troubleshooting of petrochemical units and their associated equipment.

Who Should Attend

Professionals who are making decisions with regard to the design, operation and economics of petrochemical plants : Plant Managers, Process Support Engineers, Operation Engineers, Design Engineers, Senior Plant Supervisors.

Ideal for veterans or experienced professionals who want to reinforce their practical experience, and to review and broaden their understanding in Petrochemical Plant Operation.

Ideal for graduates or professionals who are new in this area.

Other professionals who desire a better understanding of the subject matter.

Course Outline

Day 1

Introduction

- Overview of the Petrochemical Industry
- Chemistry of the Petrochemical Industry
- Fundamental of Distillation
- Optimize Distillation Column Design for Improved Reliability in Operation and Maintenance
- Catalyst Evaluation Techniques

Ethylene Plants

- Overview of Ethylene Plant
- Process Variables
- Ethylene Furnace Review
- Ethylene Distillation Troubleshooting
- Ethylene Distillation Review

Day 2

Ethylene Plants Continued

- Designing Distillation Columns for Fouling Service
- Acetylene Reactor Catalyst Review
- Ethylene Plant Economics and Optimization
- Flare Safety Review

Ethyl Benzene/Styrene Plants

- Overview of Ethyl Benzene Plant
- Process Variables
- Overview of Styrene Plants
- Process Variables
- Designing Distillation Columns for EB/Styrene Plants
- Catalyst Review

Day 3

VCM Plants

- Overview of Vinyl Chloride Plant
- Process Variables
- Design Distillation Columns for VC Service
- Environmental Concerns

Ethanolamine Plants

- Overview of Vinyl Chloride Plant
- Process Variables
- Design Distillation Columns for Ethanolamine Plants
- Design Guidelines for Improved Products and Recoveries

Catalytic Refoming Plants

- Overview of Catalytic Refoming Plants
- Acetylene Reactor Catalyst Review
- Ethylene Plant Economics and Optimization
- Flare Safety Review

Day 4

BTX Separation Plants

- Overview of BTX Separation
- Liquid/Liquid Extraction versus Extractive Distillation
- Process Variables
- 2nd Stage Gasoline Hydro Treater Units(GHU)
- Designing Columns for BTX Separation Plants
- Designing Extraction Distillation Columns
- Benzene and Toluene Derivative Overview

Xylene Separation Plants

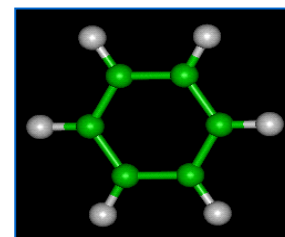
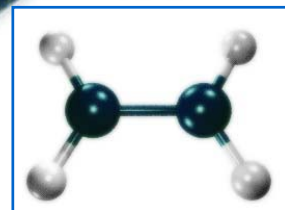
- Overview of Exylene Separation
- Crystallization versus Adsorption
- Process Variables
- Designing Columns for Xylene Separation Plants
- Xylene Derivative Overview

Mr. Karl Kolmetz

Mr. Karl Kolmetz | He is currently the General Manager for KLM Technology Group. He has over twenty-five years of progressive experience in the design, construction, commissioning, and operations management of process units from the US Gulf Coast to Alaska through Asia. He has a strong background in the manufacturing of a wide variety of chemical process technologies and product categories including; cryogenic liquids, ethylene, propylene, benzene/toluene extraction, styrene, catalytic reforming, crude atmospheric/vacuum fractionation, polyvinyl chloride, and steam /power plant operations.

Mr. Kolmetz has substantial experience in the design and troubleshooting of distillation columns, which is one of the key unit operations in hydrocarbon production. His experience includes four years of construction, two of which were on the Alaskan Pipeline with Fluor Daniel; seven years of refining experience, including eleven years in Catalytic Reforming in The Charter/Phibro Refinery (now Valero Refinery) in Houston, Texas; one year of commissioning experience with Raytheon Badger EB/Styrene plants in Asia; seven years Ethylene experience: four years in Louisiana and three years in Malaysia. He was also a former Asian Assistant Technology Manager for Sulzer Chemtech, a leading distillation tower internals manufacturer.

Karl has a Degree in Chemical Engineering from the University of Houston and is a member of the American Institute of Chemical Engineers.



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INSTITUTE for SCIENTIFIC RESEARCH, YOZAI,
SUDAN REFINERY etc

Method of Payments

Please kindly complete and return the reply form together with :

Local Participants

- By cheque / Bank draft which are made payable to
PHYTO BIZNET SDN BHD

International Participants

- By Direct Transfer/Bank Draft:
CEPP Bank details: **Bumiputra Commerce Bank Berhad**
Universiti Teknologi Malaysia
81310 UTM Skudai, Johor, Malaysia
- Account No : **0118-0004178-05-7**
- Please instruct your bank to remit us the full amount, net of bank charges.

Cancellation & Substitutions

A full refund will be promptly made for all written cancellations 2 weeks before the meeting. 50% refund will be made for written cancellations received 7 days before the meeting. A substitute may be made at any time.

Note a) The organiser has the right to make any amendments that they deem to be in the best interest of the course and to cancel the course if insufficient registrations are received a week before course commencement date .

B) CERTIFICATE OF ATTENDANCE will be awarded at the end of the course.

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Course Fee

	Single	2 or more
Local Participant (RM)	2250	2050
International Participant (USD)	1950	

(Fee is inclusive of lunch, refreshments and course materials)

REPLY FORM

FUNDAMENTALS of the PETROCHEMICAL INDUSTRY

Part 1 : Ethylene and Its Derivates

Part 2 : Aromatics and Derivates

3-6 July, 2006

CEPP, UTM City Campus, KUALA LUMPUR, MALAYSIA

YES ! I would like to register the following participants

Name 1 _____

Job Title _____

Name 2 _____

Job Title _____

COMPANY INFORMATION

Company _____

Address _____

Town _____

State _____

Tel _____ Fax _____

AUTHORISED Signatory (*This registration is invalid without signature form an authorised officer)

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Job Title _____

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ENQUIRIES

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