



KLM

**Technology
Group**

PETROLEUM REFINING PROCESSES AND ECONOMICS FOR NONTECHNICAL PROFESSIONALS

Three Day Course

**Online
Training**

INTRODUCTION

The success of every company depends of each employee's understanding of the key business components. Employee training and development will unlock the companies' profitability and reliability. When people, processes and technology work together as a team developing practical solutions, companies can maximize profitability and assets in a sustainable manner. Training and development is an investment in future success - give yourself and your employees the keys to success.

KLM Technology Group has a team of highly experienced associates in the USA, Malaysia, Indonesia and Singapore, that specializes in the practical application of knowledge. Our team leaders are all degreed engineers and typically have over twenty years of specialized chemical industry experience. Assisting the team leaders are young degreed engineers and practical application specialist with many years of applicable experience.



Mr. Karl kolmetz
Managing Director

Karl Kolmetz is a Senior Technical Engineering Professional / Managing Director at KLM Technology Group. He is the Editor for Engineering Practice Magazine and the Handbook of Process Equipment Design. He has authored more than 140 publications on a variety of subjects for product recovery, troubleshooting, training, project management, process design, process safety management and simulation with safety and environmental focus. His research interest focuses on how to apply the fundamentals of engineering to practical applications. The Handbook of Process Equipment Design has over 100 chapters on a variety of process equipment including, line sizing, pumps, compressors, relief valve, lares, separators, distillation and others.

COURSE OVERVIEW

It is strategically important that your operations team understands the fundamentals of process unit operations concepts. This is the difference between being in the best quartile of operational ability and being in the last quartile. There is vast difference in the operational ability of operating companies and most benchmarking studies have confirmed this gap in operational abilities.

COURSE OUTLINE

- Introduction
- Review of Process Incidents
- Fundamentals of Petroleum Chemistry
- Characteristics of Crude Oil
- Crude Oil Distillation
- Introduction to Refinery Equipment
- Introduction to the Refinery Flow Sheet
- Crude Oil Quality and Refinery Flow sheets
- Product Blending and Usage
- Petroleum Product Markets
- Gasoline Production Processes
- Economics of Gasoline Production Processes
- Fundamentals of Hydroprocessing
- Economics of Hydroprocessing Production Processes
- Options for Heavy Oil Processing
- Economics of Heavy Oil Production Processes
- Refining Margins

WHAT YOU CAN EXPECT TO GAIN

- An overview of refinery operations, processes and economics
 - Become familiar with the equipment of a refinery
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- Become familiar with the refinery flow sheets
- Become familiar with refinery margins

WHO SHOULD ATTEND

- This program has been designed for non-technical personnel assigned to position in petroleum refineries, corporate offices, and supplier companies.
- The content of the program is based upon the assumption that those in attendance do not have a formal education in engineering and chemistry and do no work in highly technical environments.
- This program should be used for newly-hired refinery plant personnel and may serve as a prerequisite for those who do not have a technical background but who want to attend the more detailed petroleum refining processing program.

Registration

- All sessions of this unique course online
- Live interaction options between the delegates and trainer
- Available via mobile, tablet or laptop

Join The Event

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- KLM Technology Group welcomes you and your team to our 2022 training courses. Since 1997, KLM Technology Group has been providing engineering, operations, and maintenance support for the hydrocarbon processing industry and we have been fortunate to help train over 1500 people in our courses. Thanks for your help and support over the years. We have courses in Refining, Ethylene, Polymers, Natural Gas Processing, and Ammonia as well as a course on each section of the processes.
 - We have courses in unit operations such as Mass Transfer / Distillation, Reaction, Heat Transfer, RV and Flaring Systems, Product Loading and Storage, as well as troubleshooting on each of the subjects.
 - We have courses in Process Safety such as PHA / HAZOP, Incident Investigation, LOPA, MOC, Auditing, and Risk Management. We have courses on building operational excellence, project management and some for nontechnical professionals
 - We can provide courses online, at your facility in-house, as well as regional conferences. We can custom build courses for your team. Our list of course offerings can be found here; <http://www.klmtechgroup.com/Training.htm>
 - The 2022 Online Training Calendar can be found here; <http://www.klmtechgroup.com/Training-2022.htm>
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