



KLM

**Technology
Group**

ADVANCED DISTILLATION OPERATION, CONTROL, DESIGN & TROUBLESHOOTING

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

This course will guide the participants to develop key concepts and techniques to design, operate and troubleshoot a distillation system. These key concepts can be utilized to make design and operating decisions.

COURSE OUTLINE

- General Column Design
- Vapour Liquid Equilibrium
- Stages and Transfer Units Efficiencies
- Stage Efficiency
- Tray Column Design
- Packed Column Design
- Designing Columns for Fouling Service
- Designing Columns for Vacuum Service
- Designing Columns for Improved Operation and Maintenance
- Distillation Column Control
- Simulation Convergence Techniques
- Typical Controlled and Manipulated Process Variables
- Controller Performance Criteria
- Feed Forward Control of An Ideal Process
- Troubleshooting
- Commissioning

WHAT YOU CAN EXPECT TO GAIN

- The operation, control and trouble shooting of a distillation columns and it's associated equipment.
 - An understanding of essential concepts.
 - Valuable practical insight for trouble free design and field proven techniques for commissioning, start up and shutdown of distillation operation.
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- The fundamental knowledge of distillation control.
- To tailor your approach to specific design, analysis and troubleshooting problems
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WHO SHOULD ATTEND

- An engineer or chemist who must troubleshoot and solve distillation problems in a plant, an engineering office or laboratory.
- Plant Operation Support Engineers checking plant performance under different operating conditions, and who are involved in design of new facilities or revamps of existing facilities.
- Technical engineers, operation engineers, process support personnel, chemist and manager.
- Ideal for veterans and those with only a few years of experience who want to review or broaden their understanding of process safety

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

karl.kolmetz@klmtechgroup.com



- 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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