Petrogenium. Academy

Performance Improvement

Refinery & Petrochemicals Hydrocarbon Mass Balance & Loss Course

Consultant / Trainer
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The **Petrogenium.** Refinery & Petrochemicals Hydrocarbon Mass balance & Loss course will support you not only with developing proper mass balances around your refinery and/or petrochemicals plant, but also to identify losses. This comprehensive course will help you to mitigate your losses with a lot of practical hands-on information. No high-level consultancy speak, but the real thing!

This course can be given face-to-face or remotely. The presentations are interactive, supported with slides that also serve as a dedicated course manual (PDF file). The course includes interactive discussions and participant topics (on demand, aided by short videos, exercises and Q&A sessions). Learning assessment is through a written examination (if required).

Participants

This **Petrogenium.** course can be tailored for awareness or inexperienced staff, for intermediate and for experienced personnel. Furthermore, the course can be customized for a specific refinery, plant or unit. The option for post-course consultancy/help-desk support is also available.

Participants may include: Refinery and Petrochemical Plant Managers, Production Managers, Finance Manager, Oil Movement Managers, Yield Accountants, Instrumentation Engineers, Control Engineers, Laboratory Manager, Maintenance Engineers, Terminal Operators, Plant Engineers, Supply & Trading Managers, Process Engineers and Technologists

Learning Objectives

- To operate your plant safely
- To optimise the margin and energy usage
- To ensure the quality of the solvent over an extended period
- To guide improvement projects for your plants

Programme

DAY 1

1. Refinery & Petrochemicals Introduction

- 1.1 Refinery operation
- 1.2 Petrochemicals operation

2. Hydrocarbon Mass Balances

- 2.1 The role of a mass balance
- 2.2 The impact of hydrocarbon loss
- 2.3 Basic refinery mass balance
- 2.4 Reconciled refinery mass balance

3. Hydrocarbon Losses

- 3.1 Physical losses
- 3.2 Paper losses
- 3.3 Accounted losses
- 3.4 Unaccounted losses

4. Minimising Physical Hydrocarbon Losses

- 4.1 Physical losses mitigating actions
- 4.2 Physical losses checklists

5. Minimising Paper Hydrocarbon Losses

- 5.1 Paper losses mitigating actions
- 5.2 Paper losses checklists

6. Ocean Loss

- 6.1 What is ocean loss
- 6.2 Minimising ocean loss

7. Targets and Benchmarks

- 7.1 Targets & Benchmarks
- 7.2 How to arrive at Best-in-Class

8. Questions and Answers

DAY 2

9. Key Performance Indicators

- 9.1 KPI Introduction
- 9.2 KPI Dashboards

10. Governance

- 10.1 Roles & Responsibilities
- 10.2 Reviews Meetings
- 10.3 Auditing

11. Case Study 'Flare reduction'

- 11.1 Introduction
- 11.2 Case Study
- 11.3 Best Practices

12. Questions and Answers

DAY 3

13. HM 31 Guide Topics

- 13.1 Introduction
- 13.2 Weighing & measuring
- 13.3 Loss from process units
- 13.4 Tankage

14. Miscellaneous Topics

- 14.1 Idea lists
- 14.2 Tools

15. Summary & Conclusions

16. Questions and Answers

17. Examination

18. Course Feedback & Certification

Why select Petrogenium.?

The above support will be provided by principal consultants with 30+ years world-class experience in the technology and hands-on know-how from operation of refinery units.

Contact Petrogenium.:

Email: training@petrogenium.com
Website:https://www.petrogenium.com/training/

Because Experience Matters