



Global Professionals Institute for Training
معهد المحترفون العالميون للتدريب الأهلي

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Gas Sweetening & Sulfur Recovery



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Introduction

This training course on Gas Sweetening and Sulfur Recovery is designed to provide an in-depth understanding of the processes involved in treating sour gas streams to remove impurities such as hydrogen sulfide (H₂S) and carbon dioxide (CO₂). These impurities need to be reduced to acceptable levels to meet environmental standards, improve safety, and ensure efficient downstream processing. The course will cover the fundamentals of gas sweetening and sulfur recovery, including process design, operation, and troubleshooting.

Course Objectives:

- ✓ Understand the basics of gas sweetening and sulfur recovery processes.
- ✓ Learn about different technologies and methods used in gas sweetening, including amine treatment, physical solvents, and hybrid processes.
- ✓ Gain insights into the Claus process for sulfur recovery and related technologies.
- ✓ Explore the environmental and safety considerations in gas processing.



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Who should attend?

- ❖ Process engineers and chemical engineers working in the oil and gas industry.
- ❖ Operations personnel involved in gas processing facilities.
- ❖ Environmental and safety engineers.
- ❖ Technical managers and supervisors overseeing gas treatment operations.
- ❖ Anyone interested in gaining a solid understanding of gas sweetening and sulfur recovery.

Program Syllabus

First Day

- Introduction to Gas Processing
- Properties of Sour Gas
- Environmental and Regulatory Standards
- Principles of Gas Sweetening



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Second Day

- Amine Gas Sweetening
- Physical Solvent Processes
- Hybrid Solvent Processes
- Membrane Separation

Third Day

- Adsorption Methods
- Overview of Sulfur Recovery
- The Claus Process
- Tail Gas Treatment

Fourth Day

- Oxygen Enrichment in Claus Process
- Process Design Considerations
- Operational Challenges
- Troubleshooting and Optimization



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Fifth Day

- Energy Efficiency in Gas Treatment
- Safety Considerations in Gas Processing
- Case Studies
- Future Trends in Gas Processing

Program Methodology

A highly interactive combination of lecture and discussion sessions will be managed to maximize the amount and quality of information, knowledge and experience transfer. The sessions will start by raising the most relevant questions, and motivate everybody finding the right answers. The attendants will also be encouraged to raise more of their own questions and to share developing the right answers using their own analysis and experience. Course material through power point equipped with necessary animation, learning videos, and general discussion to provide participants with full understanding concerning the subject course will be provided.

Percentage of Delivery Methodologies

50% Presentation

20% Group & Individual Exercises

20% Case Studies

10% Active Movies and Videos



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العرض المالي

السعر	مكان الانعقاد	تايف الانعقاد	مدة البرنامج
1250 kd	Istanbul - Mercure Istanbul Bomonti	19-23/January 2025	5 days

تفاصيل التكلفة :

- المحاضرة العلمية ❖
- المادة العلمية ❖
- الشهادات ❖
- بوفيه خفيف ❖



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