

GLOBAL EXPERTS INSTITUTE FOR TRAINING.
ISO 9001-2008 TRAINING PROVISION CERTIFIED

Amine Treating And Sulfur Recovery Technology

Schedule Dates:

Start Date	End Date	Place
22 / 01 / 2024	26 / 01 / 2024	Rome, Italy – Quirinale Hotel

Program Objective:

- ✓ Demonstrate an understanding of Amine sweetening and Sulphur Recovery technologies
- ✓ Grasp an explanation of the key features of gas treating
- ✓ Discuss the thermodynamics of gas processing
- ✓ Identify the main process steps
- ✓ Evaluate, monitor, and troubleshoot gas treating operations

Program Outlines

Day One

Introduction to Natural Gas

- Statistical review of petroleum consumption and supply
- LNG / NGL production and processing
- Commercial and Unconventional Gases
- Associated / Non-associated Gas
- Types of Contaminants and Gas specifications
- Environmental and Safety Considerations

Day Two

Gas Sweetening

- Gas contaminants and commercial processing alternatives
- Chemistry of Amine Gas Sweetening
- Physical Solvents and
- Membrane Processes
- Guide to selection of gas Sweetening Processes
- Mechanical Filters

Day Three

System Design & Troubleshooting

- Process Flow and process description
- Design Criteria Guidelines for Amine Systems:
- General Considerations for Amine Processes
- Materials selection and construction
- General Operating Problems and troubleshooting
 - Solution degradation & amine losses
 - Foaming
 - Heat Stable salts
 - Corrosion
- Data collection key to successful troubleshooting

Day Four

Sulphur Recovery I

- “Claus” Sulphur recovery chemistry and thermodynamics – A question of equilibrium
- Claus Process - Considerations and Modifications
- The EUROCLAUS Concept
- Process Considerations & Instrumentation
- Mechanical Considerations
- Claus Process Calculations and Exercises

Day Five

Sulphur Recovery II




- Tail Gas Handling
- SCOT and Incineration
- Sulfur Product Specifications, Storage and Handling
- Safety and Environmental Considerations
- Troubleshooting: what can go wrong

Training Methodology:

- Slide presentations
- Interactive discussion
- Simulations and Gamification
- Online Video material

Cost Quotation in Kuwaiti Dinars

The total cost includes:

-  Instructor(s) expenses
-  Training materials
-  Certification

Total Cost: 1500 KD per Participant
(One Thousand Five Hundred Kuwaiti Dinar)