

Technical Seminars



Amine Optimization

Specializing in Amine Unit Performance

AMINE UNIT TECHNICAL TRAINING SEMINAR

Operations & Troubleshooting
Inlet Separation, Contamination Control & Foaming
Energy Minimization, Solvent Protection & Corrosion

AmineOptimization.com

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Objectives

The objective of our amine unit technical seminars is to inform participants about amine units, their basic concepts, unit components, equipment functions and the problems associated with their operation. Additionally, the seminars aim to train on troubleshooting strategies, critical parameters set points, process optimization and to discuss real cases showing common problems associated with amine units. We currently have three (3) technical seminar options.

1. Amine Unit Operation & Troubleshooting (2-day) - Open Seminar and Onsite Seminar
2. Amine Unit Inlet Separation, Contamination Control & Foaming (1-day) - Onsite Seminar
3. Energy Minimization, Solvent Protection & Corrosion (1-day) - Onsite Seminar

Who should attend

- Operators
- Process Engineers
- Maintenance Personnel
- Managers & Supervisors
- Technical Specialists
- Purchasing Personnel
- EPC Companies
- Suppliers
- Consultants

Why you should attend

- Amine unit performance is often overlooked and poorly understood in many plants.
- Poor amine unit contamination control is the leading cause of process instabilities, amine solvent losses and lower profitability.
- Proper knowledge of amine units is critical to plant performance and reliability.
- Lack of formal training across process industries leads to uninformed decision-making.

Benefits of attending

- Understand the technical and economic aspects of amine units and performance.
- Gain insight into design details and operating parameters for amine units.
- Network with peers and attain valuable exposure to real cases and on-site experience.
- Become familiar and recognize operational failures; perform troubleshooting.



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Technical Seminar Contents

1) Amine Unit Operation & Troubleshooting (2-day seminar)

The seminar provides a complete overview of amine units, its components and operation. It also covers major challenges in amine units such as corrosion and foaming in addition to specialty concepts for energy minimization, cost reduction and solvent protection. This seminar is often an open seminar several times per year and also presented onsite at location.

Day 1 - Basic Concepts of Amine Units

- Amine Unit Chemistry
- Different Amine Solvent Types
- Amine Unit Parts and Functions
- Operations and Process Parameters
- Scheduled Maintenances
- Amine Solvent Analysis
- Inlet Separation
- Gas Coalescence
- Lean Amine Filtration and Rich Amine Filtration
- Activated Carbon Beds

Day 2 – Advanced Concepts of Amine Units

- Foaming and Foam Control
- Solvent Losses and Solvent Recovery
- Heat Stable Salts
- Solids Fouling
- Corrosion
- Amine Degradation
- Energy Minimization and Solvent Protection
- Troubleshooting
- Real Cases and Problem Solving
- Common Mistakes in Amine Unit Operations



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2) Amine Unit Inlet Separation, Contamination Control & Foaming (1-day seminar)

This seminar provides a complete review of amine units in terms of inlet contamination types, origins and effects. It also covers various inlet separation technology options available in addition to amine solvent filtration, activated carbon adsorption and amine solvent foaming.

Day 1

- Amine Unit Basics
- Inlet Contaminants to Amine Units
- Bulk Separation
- Gas Coalescence and Gas Filtration
- Other Inlet Separation Technologies
- Gas Phase Contaminants
- Amine Solvent Filtration
- Activated Carbon Beds
- Amine Foaming
- Troubleshooting
- Real Cases and Problem Solving

3) Amine Unit Energy Minimization, Solvent Protection & Corrosion (1-day seminar)

This seminar provides a complete examination of amine units in terms of energy demand and energy minimization. It also covers aspects related to amine solvent regeneration, amine solvent decomposition, amine solvent protection and corrosion.

Day 1

- Amine Unit Basics
- Different Amine Solvents and Energy Requirements
- Energy Balance and Consumption in Amine Units
- Heat Exchanger Concepts
- Regenerator Design and Evaluation
- Regenerator Set-points
- Influence of Solvent Recirculation
- Energy Optimization under Tight Specifications
- Corrosion in Amine Units
- Troubleshooting
- Real Cases and Problem Solving



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Customized & Onsite Seminars



Amine Optimization Company customizes many of the technical seminars for specific needs or to provide focus on certain aspects. Please contact us for more information. The technical seminar can be delivered onsite to the plant, facility or offsite location.

Pricing and Included Materials



We come to your plant, office or offsite location.

All expenses included for a location within a 300-mile ratio from Houston. Other locations, will include travel expenses.

Pricing includes presentation slides booklet and a compendium of key papers.