



NXU | Nexo University Technical Training Seminars

Onsite Seminars – Open Seminars – Webinars – Online Courses



Gas and Liquids Processing Amine – Dehydration – Cryogenics – Stabilizer – Filtration Operation | Optimization | Troubleshooting

Basic Principles
Equipment Details
Process Setpoints

Contamination Control
Maintenance and Optimization
Troubleshooting



Objectives of the trainings

To train and inform participants about gas and liquids processing related to basic concepts, unit components, equipment functions and operational details and problems. The objective is also to train on troubleshooting strategies, critical parameters, set points, process optimization, discuss real cases and common problems associated with amine units, dehydration units, cryogenic units, stabilizer units in addition to filtration, coalescing and contaminant separation.

Technical Training Seminar Modes:

- Onsite Seminars: Delivered in-person at specific plants, facilities or corporate offices.
- Open Seminars: Delivered in-person twice a year and are open for all to attend.
- Webinars: Delivered online, live via Zoom once per month and are free for all to attend.
- Online Courses: Recorded courses at the NXU Online Technical Training Platform.

NXU Online Website: <https://nxu.teachable.com>

Who should attend

- Engineers
- Operators
- Maintenance Personnel
- Managers & Supervisors
- Technical Specialists
- R&D Personnel
- Construction Personnel



Why you should attend

- Operation of process units and performance can be overlooked and poorly understood.
- Deficient operation and contamination control is the leading cause of low profitability.
- Knowledge of process unit operations is critical for ensuring 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 insights into design details, operating parameters and optimization methods.
- Network with peers and attain valuable exposure to real cases and on-site experience.
- Become familiar and recognize operational failures; perform troubleshooting.

Technical Seminars Contents

Amine Units (1 or 2 days)

- Amine Unit Basics and Solvents
- Equipment Details
- Operational Set Points
- Contamination Control
- Solvent Foaming, Losses and Recovery
- Energy and Solvent Protection
- Corrosion and Fouling
- Solvent Analysis and Monitoring
- Troubleshooting and Case Studies

Dehydration Units (1 day)

- Dehydration Fundamentals
- Principles of Liquid Desiccants
- Principles of Solid Desiccants
- TEG Unit Process Equipment
- TEG Unit Process Details
- Molecular Sieve Unit Equipment
- Molecular Sieve Process Details
- TEG Solvent Analysis
- Molecular Sieve Analysis

Filtration and Separation (1 or 2 days)

- Principles of Filtration
- Filtration in Liquid Streams
- Filtration in Gas Streams
- Filtration Vessel Designs
- Inlet Separation
- Coalescence in Gas Streams
- Coalescence in Liquid Streams
- Coalescing Vessel Designs
- Activated Carbon Beds
- Troubleshooting

Cryogenics and Stabilizer Units (1 day)

- Natural Gas Dew Point Control
- Cryogenic Processes Overview
- Operational Checklists
- Refrigeration Systems
- Refrigeration Process Conditions
- Refrigeration Optimization
- Cryogenic Troubleshooting
- Stabilizer Units Overview
- Stabilizer Units Operation
- Stabilizer Troubleshooting

Customized Seminars

NXU Nexo University technical training team customizes many technical seminars for specific needs, specific facilities or to provide focus on certain aspects.

Please contact Nexo Solutions for more information on our various technical training programs.

Email: nxu@NexoSolutions.com | Nexo Solutions website: www.NexoSolutions.com