Nexo Solutions, Technical Training
Filtration & Separations Engineering, Applications and Troubleshooting
Oil & Gas, Chemical and Petrochemical Industries

Nexo Solutions offers a suite of technical training courses on Filtration & Separation Engineering, Applications, Troubleshooting, and related aspects. The training courses can be tailored to your specific needs on site at your location, or can be attended in The Woodlands (Texas) by enrolling in the yearly open course. The technical training courses offered by Nexo Solutions are recognized internationally for instruction on relevant and practical applications related to process separations engineering, contamination control, and troubleshooting. The courses are specifically developed for the Oil & Gas, Refinery, Chemical, and Petrochemical industries. Numerous versions of the technical training courses have been presented worldwide, from which many process engineers, operators, maintenance personnel, asset managers, and operational supervisors have benefitted. The training courses are routinely attended by operating, engineering and supplier companies at all levels.

All materials and case studies covered in each technical training course are a direct result of the significant experience and information obtained during our extensive field work, in addition to learnings from past and current projects. Each technical training course is formatted to maximize interaction between the presenter and attendees. The information presented in each technical training course is contained in a complete set of notes provided to each attendee.

I am certain that you will find each technical course enjoyable, dynamic and highly instructive.

We hope to see you in the near future.

All the best,

David Engel, Ph.D.
Managing Director & Senior Engineer

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Who should attend

- Process Engineers
- Operations & Maintenance Personnel
- Managers & Supervisors
- Technical Specialists
- R&D Personnel
- Purchasing Personnel
- Engineering & Construction Personnel
- Suppliers
- Consultants

Why you should attend

- Poor contamination control is the leading cause of process instability and losses
- Filtration and separation is often overlooked and poorly understood in many plants
- Proper knowledge of separation systems is critical to plant performance
- Lack of formal training across process industries leads to uninformed decision-making

Benefits of attending

- Understand the technical and economic aspects of separations and contamination control
- Gain insight into engineering, design details, and operating efficiency of separation systems
- Network with peers and attain valuable exposure to real cases and on-site project analysis
- Become familiar with operational failures, causes/symptoms, and troubleshooting

Participant companies in past courses

- Exxon
- DCP Midstream
- QEP
- Anadarko
- BASF
- Shell
- Cansolv
- Ecopetrol
- Rosedale
- Pentair
- Phase Process
- Marathon
Technical Training Offerings

Nexo Solutions offers ON-SITE technical training courses in different filtration & separation subjects. The ON-SITE technical training courses are one 1-day (8 hours) or 2-day (16 hours) sessions. Additionally, a 3-day (24 hours) OPEN technical course is conducted once each year. A complete list of the technical training courses is shown below:

**ON-SITE 1-Day (8 hours) Technical Training Course**

TC-01: Filtration & Separation in Oil & Gas, Chemical and Petrochemical Plants: Basic Introduction
TC-02: Filtration & Separation in Oil & Gas, Chemical and Petrochemical Plants: Applications
TC-03: Contamination Removal in Compression Stations and Inlet Feed Gas
TC-04: Contamination Removal in Produced Water and Sour Water

The 1-day (8 hours) ON-SITE courses are designed with time optimization in mind. Each course includes the most important and critical information, and is delivered in a precise and concise way.

Each technical training course includes a booklet with presentation slides (hard copy) for each attendee.

**ON-SITE 2-Day (16 hours) Technical Training Course**

TC-11: Filtration & Separation in Gas Processing Plants
TC-12: Filtration & Separation in Refinery Operations
TC-13: Filtration & Separation in Chemical and Petrochemical Plants
TC-14: Filtration & Separation in Oil & Gas, Chemical and Petrochemical Plants: Engineering & Applications

The 2-day (16 hours) ON-SITE courses are designed with detailed information in mind. Each course includes important and critical information, analyzed in depth and delivered in a more detailed way.

Each technical training course includes a booklet with presentation slides (hard copy) for each attendee.

**OPEN 3-Day (24 hours) Technical Training Course**

Date: September 14-16, 2015    Location: The Woodlands, TX – USA

*Filtration & Separation in Oil & Gas, Chemical and Petrochemical Industries*

*Engineering, Applications and Troubleshooting*

The OPEN technical training course includes daily lunch, snacks, beverages, and a Happy Hour networking opportunity. The course also includes a booklet with presentation slides (hard copy) for each attendee. The enrollment for the course is OPEN to anyone who wishes to attend.

For additional details, please contact us at support@NexoSolutions.com or call +1 (832) 510-8191
Course Lead Instructor

David Engel, Ph.D.
Managing Director & Senior Engineer

David has more than 20 years of industrial experience in a variety of areas including chemical synthesis, corrosion resistant materials, sensors, light to energy conversion, security technology, conducting materials, filtration and separation technologies, analytical methods, chemical additives, and phase separation technologies.

David is the inventor in 17 United States Invention Patents and many World Invention Patents in various areas of technology. David has also developed new businesses, engineering services, and technologies for Eastman Kodak, Eli Lilly, Porous Media, Pentair, General Electric, and Sulphur Experts. He has been a speaker in many technical conferences and presented a number of seminars and technical training courses globally on a variety of technology and engineering subjects.

David has been in numerous on-site field projects at many worldwide locations (Americas, Europe and Middle East). Recently, David has specialized in process troubleshooting, process separation systems engineering, and contamination control methods for improving plant performance, efficiency, and reliability. David is Senior Consultant and Co-Founder of Sulphur Experts, Filtration Division and Managing Director of Nexo Solutions. He holds a B.S. in Industrial Chemistry, a Ph.D. in Organic Chemistry, and is also 6-Sigma Certified.

Appointments:

- Member of the American Chemical Society (ACS)
- Member of the Gas Processors Association (GPA)
- Member of the American Filtration and Separation Society (AFS)
- Member of the Editorial Board at Elsevier Publishing Company
- Member of the Board of Directors at Genesis Biohealth
- President of the American Filtration and Separation Society (AFS) – Southwest Region
- GLC Senior Consultant
Course Lead Instructor Papers & Presentations (2013 and 2014)

“The Seven Deadly Sins of Sour Water Stripping”
AFPM 2014, March 27, 2014

“Reducing Hydrocarbons in Sour Water Stripper Acid Gas”
LRGCC 2014, February 24, 2014

“Choose Optimal Feed Conditioning Strategies for Gas Processing”
Gas Processing, February 1, 2014

“Hydrocarbon Contamination in Amine Acid Gas”
Sulphur, February 20, 2014

“Reducing Hydrocarbons and Solids Contamination in Sour Water Strippers”
Hydrocarbon Processing, August 1, 2013

“Filtration and Separation in Sulfur Recovery”
Chemical Engineering, April 1, 2013

“Seven Deadly Sins of Filtration and Separation Systems in Gas Processing”
GPA, April 1, 2013

“Feed Conditioning Strategies for Gas Processing”
SOGAT, March 1, 2013

“Fouling Solutions - Is Suspended Solids Filtration the Right Answer?”
Filtration News, September 1, 2013

“Process Industries: Mitigating the Fouling Menace”
Filtration + Separation Magazine, October 1, 2013

“Strategies for Minimizing Hydrocarbon Contamination in Amine Acid Gas”
Sulphur 2013, November 8, 2013

“Troubleshooting Contamination in Gas Compression”
Compressor Tech 2, November 1, 2013

“Innovation in H2S Removal Technologies for the Oil & Gas and Chemical Processing Industries”
ChemInnovations, October 1, 2013

“Sour Water Production and Processing in Oil Gas Operations”
American Filtration & Separations Society, May 1, 2013
Additional Course Instructors

Heath Burns, Mechanical Engineer
Systems Engineer

Scott Williams, Chemical Engineer
Process Engineer

Jamie Eaton, Electrical Engineer
Staff Engineer

Randy Ripple, Mechanical Engineer
Business Development Engineer

Invited Instructors

Every OPEN technical training seminar has an invited guest speaker. The guest speaker along with the title of the paper is announced a few days prior to the seminar. The guest speaker is usually an expert in his field of work presenting relevant related aspects to Filtration & Separation. Topics can range from business outlook or safety to flow control, corrosion aspects, fouling, and others.

Others

All technical training seminar attendees will learn how to utilize the Intellisys™ simulation program for vessel design applied to filters, coalescers, and adsorption beds.