



## Gas Treating and Sulfur Recovery - G-6

### COURSE

#### About the Course

This course emphasizes process selection, practical operating issues, technical fundamentals, and integration of the sweetening facilities into the overall scheme of gas processing. Sulfur recovery and tail gas processes are also covered, including standard Claus configurations, SuperClaus, EuroClaus, SCOT, etc. Special design and operation topics, such as trace sulfur compound handling and the importance of H<sub>2</sub>S:CO<sub>2</sub> ratio, are covered as well. Related topics reviewed during the course include liquid product treating, corrosion, materials selection, and NACE requirements.

#### Target Audience

Production and processing personnel involved with natural gas treating and sulfur recovery, requiring an understanding of the principles of these process operations. This course is for facilities engineers, process engineers, operations personnel, and field supervisors, as well as others who select, design, install, evaluate, or operate gas sweetening and sulfur recovery facilities.

#### You Will Learn

- Evaluation and selection of processes to remove acid gases (H<sub>2</sub>S, CO<sub>2</sub>, COS, CS<sub>2</sub>, mercaptans, etc.) from gas and NGLs
- The advantages and disadvantages of available gas treating technology and processes
- How to estimate solvent circulation rates, energy requirements, and equipment sizes
- To recognize and evaluate solutions to common operating and technical problems
- Sulfur recovery technologies, including an overview of the Claus Sulfur process
- How to select among the proper sulfur recovery process given differing process conditions
- Tail gas cleanup

#### Course Content

- Fundamentals of sour gas processing, sweetening, etc.
- Overview of gas treating and sulfur recovery, terminology
- Gas specifications and process selection criteria
- Generic and specialty amine treating
- Common operating and technical problems
- Proprietary amine solvents, such as Sulfinol and Flexsorb

- Carbonate processes
- Physical absorption processes, e.g. Selexol
- Metallurgical issues (corrosion)
- Other technologies and new developments
- Selective treating, acid gas enrichment
- Solid bed and non-regenerable treating; scavengers
- Liquid product treating
- Sulfur recovery processes (including degassing)
- Tail gas clean-up (SCOT-type, CBA, and others)
- Acid gas injection
- Membranes
- Emerging and new technologies
- Course workshop and summary

## Product Details

Categories: [Midstream](#)

Disciplines: [Gas Processing](#)

Levels: [Intermediate](#)

Product Type: [Course](#)

Formats Available: [In-Classroom](#)

Instructors: [Kenneth Sourisseau](#) [Frank Ashford](#) [John C. Bourdon](#) [John Morgan](#)

## In-Classroom Format

30 Sep '24	4 Oct '24	-   Course   In-Classroom (in London )	\$5,735.00
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11 Nov '24	15 Nov '24	-   Course   In-Classroom (in Houston )	\$4,965.00
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