



Under the Patronage of
H.E. Bakheet S. Al-Rashidi
Minister of Oil & Minister of Electricity & Water
State of Kuwait

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إحدى شركات مؤسسة البترول الكويتية
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GAS CONDITIONING & DEWPOINT CONTROL

10 - 11 MARCH 2019 | THE REGENCY HOTEL, STATE OF KUWAIT



Two Days Workshop

CONDUCTED BY



Kefah A. Al-Faddagh
Gas Processing Consultant
Saudi Aramco

ORGANISED BY



WORKSHOP DESCRIPTION

This workshop emphasizes technical fundamentals, practical operating issues, process selection, and integration of the gas conditioning and dewpoint control facilities into the overall scheme of gas processing. It is also covered conventional and unconventional natural gas types. Special design and operation topics such as gas sweetening, dehydration, hydrate inhibition and hydrocarbon dewpoint control is covered.

WORKSHOP OBJECTIVES

Identify, recognize, and evaluate the advantages, limitations, and range of applications for each gas sweetening, dehydration and dewpoint control processes. Describe process selection, practical operating issues, technical fundamentals, and integration of the gas conditioning facilities into the overall process scheme. Participants should be able to understand that there are many types of Natural Gas and there are many processes that could be employed to remove acidic components (primarily H₂S and CO₂) and water from hydrocarbon streams and then control the hydrocarbon dewpoint. Upon completing this workshop, the participant is expected to have a good understanding of Gas Conditioning and Dewpoint Control in general.

POTENTIAL PARTICIPANTS

Chemical engineers involved with the design and operation of gas processing facilities with 2 years' experience in the gas processing. Also for production and processing personnel involved with natural gas sweetening, dehydration and dewpoint control requiring an understanding of the principles of these process operations.

WORKSHOP CERTIFICATE

Gas Processors Association – GCC certificate will be issued to all attendees.

WORKSHOP PROGRAM

Gas Conditioning & Dewpoint Control

Day 1

Gas Treating

Module 1 - Overview of Gas Conditioning

Module 2 - Natural Gas Production and Types

- Conventional Gas
- Unconventional Gas

Module 3 - Introduction of Sweetening Processes

Module 4 - Chemical Processes Basic Process Principles

Module 5 - Amine Processes and General Discussion

Module 6 - Water Content in the Gas

Module 7 - Hydrate Formation

Day 2

Dehydration and Dewpoint Control

Module 8 - Hydrate Inhibition

Module 9 - Dehydration

Module 10 - Dewpoint Control

Module 11 - Hydrocarbon Dewpoint Control

Module 12 - Case Study

Module 13 - Optimization and Safety

Module 14 - General Discussions

INSTRUCTOR



Kefah A. Al-Faddagh
Gas Processing Consultant

Kefah Al-Faddagh joined Saudi Arabian Oil Company (Saudi Aramco) in 1986 and retired in 2012. Prior to joining Saudi Aramco, since 1979 and for 7 years, he had been lecturer and assistance to the Head of the Chemical Engineering Department of the Basra University, Iraq.

Kefah is a Gas Processing Consultant in Gas Treating, Sweetening, Sulphur Recovery, Dehydration, NGL Recovery and Crude Stabilization. He worked for the Upstream Process Engineering Division of Process & Control Systems Department, Saudi Aramco. He supported and pursued performance of all gas operating plants, new natural gas ventures, and natural gas infrastructure projects in Saudi Aramco. He also provided technical training to Saudi Aramco Engineering, Operating Gas Plants and Projects personnel with all knowledge to capture integrated opportunities across the full value chain.

Throughout his career, of more than 37 years of diversified experience in the gas industry and academic, he has held a variety of engineering, operations and projects, including projects development of various Natural Gas plants in Saudi Aramco.

He holds B.Sc. and M.S. degrees in Chemical Engineering, from Baghdad University, Iraq in 1976 and 1978, respectively. He certified as Gas Processing Consultant from Saudi Aramco and certified as Consultant Engineer from Saudi Council of Engineers (SCE).

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