

**Title:** Amine Treating & Sour Water Stripping Process

**Potential PDH:** 16

**Code:** BTT080

**Description:**

- To further improve knowledge and experience with Amine Treating & Sour Water Stripping processes applications in general
- To become more familiar with specific challenges and how to effectively deal with these challenges in practice.
- The transfer and sharing of knowledge and best practices in the area of Amine processes.

**Outline:**

1. Introduction
2. Process Principles Amine Chemistry – Amine Selection
3. Amine Equipment Review
4. Typical Plant Operating Conditions
5. Liquid/Liquid Treatment
6. Detailed Amine Analysis
7. Typical Process Control
8. Amine Losses and Foaming Control
9. Corrosion Basics
10. Heat Stable Salts and Degradation
11. Sour Water Stripping – Basics/Design
12. Sour Water Stripping - Performance
13. Calculations and Troubleshooting
14. FeS Friend or Foe
15. Filtration Selection and Application

**Instructor:**

Gordon Finnie is a highly respected Process Engineering Consultant with 30 years of expertise in technical, operational, and process safety leadership. He has a strong track record of improving performance and resolving issues in the oil and gas industry. With extensive experience in sour gas treatment, technical management, reliability assessment, safety integrity study, risk evaluation, QA audits, safety assessments, failure mode, and effects analysis, fault and event trees, HAZOP, fault identification/analysis, and team leadership. He has successfully led refinery modernization projects and addressed plant and equipment failure. Gordon is known for his strategic thinking, analytical skills, and ability to work in diverse environments. He possesses strong leadership, interpersonal, and networking skills, and can communicate complex ideas effectively. His core competencies include project management, budget management, and health and safety. As a consultant, he provides expert technical guidance and support to construction teams, conducts regular risk assessments, and audits, and ensures compliance with safety procedures. He has successfully Improved client's Sulphur Recovery Unit availability from 86% to 95%, reduced environmental emissions excursions by 80%, and eliminated personnel H2S exposure events. Mr. Finnie holds a BSc degree (Hons) in Chemical Engineering from

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Page 2 of 2

the University of Strathclyde, Glasgow, Scotland