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CCS Projects: Flow Assurance Aspects of Offshore CCS Projects

Training Course Outline

- Section 1 — Introduction
- Section 2 — Offshore Systems
 - Basics of Production Systems
 - Field Layout and Architecture
- Section 3 — Flow Assurance Overview
 - Fundamentals of Flow Assurance
 - Flow Assurance Issues
- Section 4 — CO₂ Fluid Phase Behavior
 - Single Phase Flow
 - Multiphase flow
- Section 5 — Changes of CO₂ Flow Assurance
 - Effect of Impurities
 - Fluid flow modeling
- Section 6 — CO₂ Injection and Storage
 - CO₂ Injection
 - CO₂ Storage
- Section 7 — Effect of Corrosion
 - CO₂ Corrosion
 - CO₂ + H₂S Corrosion
- Section 8 — Design and Operation of CO₂ Pipelines
 - DNV Recommended Practice
 - Properties of CO₂, Safety of Transportation
 - Materials and Design, Qualifications

■ Section 9 — Case Studies

- Snohvit Project (Norway)
- Mongstad Project (Norway)

■ Section 10 — Q/A Session

Note: This course can be customized to meet the specific needs of a client and can be offered virtually or in-person at the client's office(s), around the world, whenever mutually convenient.