

Scandinavian Academy Training Center

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Riyadh - Al Khaleej District - Sheikh Abdul Aziz Bin Abdul Rahman Bin Bishr Street - 13223 - Office No. 5 | P.O.BOX : 13224

Course: Surface Production Operations

Code	City	hotel	Start	End	price	Language - Hours
OG-518SA	Dammam	Hotel Meeting Room	2027-09-05	2027-09-09	12950 SR	En - 25

OVERVIEW

The purpose of this course is to present an overview and basic understanding of the wide range of oilfield production handling and treatmentequipment. The participant should learn not only “what” but “how” field fluid treating equipment works. The fundamental principles of fluid behavior are first introduced, then applied to all of the various equipment and systems comprising production operations. Emphasis is on understanding the internal workings inside the piping, valves and treating vessels. A major goal of this course is to improve communication among the technical disciplines, field and office in order to enhance operational efficiencies, lower costs and improve production economics. Example step-by-step exercises are worked together with the instructor to drive home the important points. Daily sessions include formal presentation interspersed with many short directed discussion and problem solving.

Who Should attend?

Technical, field, service, support and supervisory personnel having interaction with Facilities Engineers and desiring to gain an awareness level understanding of the field processing of production fluids. This course is excellent for cross-training. This course delivers an understanding of all the fundamental field treating facilities: What they are – Why they are needed – How they work.

Course objectives

- The physical properties and phase behavior of crude oil and natural gas that govern production operations

- Field processes for treating and conditioning full wellstream production for sales or final disposition
- An introduction to the wide range of equipment used to process, treat, transport, and store oilfield produced fluids
- The basics of oilfield corrosion prevention, detection and treatment
- How to determine and minimize pressure drop in pipelines, valves and pressured vessels
- Internal workings of separators, pumps, compressors, valves and other treating equipment
- An overview of the processes and equipment used to handle acid gases
- A basic understanding of a wide range of produced fluid volume measurement and metering devices
- A description of treating equipment whether located on the surface, offshore platform or sea floor

Outline

- Properties of produced fluids: Impact of pressure, temperature and fluid on key hydrocarbon parameters and fluid behavior
- Valves: API valves, chokes, regulators, and flow control devices; principle of operation and effect on fluid condition
- Safety systems: surface safety control systems; relief valves; pressure ratings; API recommended practices
- Flowlines, manifolds and gathering systems: material selection, pressure drop considerations, line sizing, corrosion, noise and erosion concerns, full wellstream production, two and three phase fluid flow, pigging, slugs, foam and emulsions
- Mechanical equipment: Pumps, compressors, heaters, sour and acid gas treating, pressured vessels, storage facilities and other surface treating/fluid handling equipment
- Gas separation / treating: two and three phase separation, free water removal, treatment of emulsions, hydrate prevention and treatment, vapor recovery, gas conditioning for sales, injection or field usage

- Oil / water separation and treatment: two and three phase separation, emulsion breaking, asphaltenes, solids control, removal of residual oil-in-water and water-in-oil to meet pipeline specifications or injection / disposal requirements, hydrocyclones and new water / oil treating equipment
- Fluid measurement and instrumentation: Liquid and gas metering using positive displacement meters, orifices, sonic meters, mass measurement meters, three phase flow measurement and new metering devices
- Acid gas treatment: field handling and treatment of sour and acid gases, safety considerations, API standards
- Corrosion: fundamental principles; detection, prevention and treatment
- Treating facility innovations: up-to-date description of new equipment for handling high pressure/temperature, three phase flow from subsea and remote locations

The Scandinavian Academy for Training Center adopts the latest scientific and professional methodologies in training and human resource development, aiming to enhance the efficiency of individuals and organizations. Training programs are delivered through a comprehensive approach that includes:

- Theoretical lectures supported by PowerPoint presentations and visual materials (videos and short films).
- Scientific evaluation of participants before and after the program to measure progress and knowledge acquisition.
- Brainstorming sessions and practical role-playing to simulate real-life scenarios.
- Case studies tailored to align with the training content and participants work nature.
- Assessment tests conducted at the end of the program to evaluate the achievement of training objectives.

Each participant receives the training material (both theoretical and practical) in printed form and saved on a CD or flash drive. Detailed reports, including attendance records, final results, and overall program evaluations, are also provided.

Training materials are prepared professionally by a team of experts and specialists in various fields. At the end of the program, participants are awarded a professional attendance certificate, signed and accredited by the Scandinavian Academy for Training Center.

Program Timings: 9:00 AM to 2:00 PM

The program includes:

- A daily buffet provided during the sessions to ensure participants comfort.
- A closing ceremony on the final day to distribute certificates and celebrate participants achievements.
- **Note: All prices are exclusive of 15% Value Added Tax (VAT).**

Our Success Partners

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