SCANDINAVIAN ACADEMY
For Training and Development

# Course: The A to Z of Petroleum Industry

| Code | City | Hotel | Start | End | Price | Language - Hours |
|------|------|-------|-------|-----|-------|------------------|
| 140 | Florence (Italy) | Hotel Meeting Room | 2024-12-30 | 2025-01-03 | 5950 € | En - 25 |

## Why Choose this Course?

This comprehensive course recognizes the need for professionals to have a comprehensive and broad understanding of the Petroleum Industry from A to Z - from upstream to downstream. Oil and gas are the world`s most important energy resources driving the global economy. The processes and systems required for oil and gas production, refining and distribution are highly complex, capital-intensive and require state-of-the-art technology. This course will serve as an introduction to the petroleum industry and will greatly assist those who need to progress to a detailed knowledge of the industry.

**This course will feature:**

- Details of oil & gas processing including exploration, refining, storage transportation and retailing
- Understanding of the value chain from the well to consumer
- Understanding of the fundamental technologies of both upstream and downstream oil & gas industries
- Understanding of the ways the oil & gas industries are organized to operate effectively and efficiently
- Develop the necessary skills to evaluate and make effective decisions related to the oil & gas industry

## What are the Goals?

- Identify key process operations related to the exploration & production of

upstream industry feedstock

- Analyze the key process operations related to refining and production of downstream products
- Recognize the total spectrum of the oil and gas industry and the challenges faced
- Develop skills to assist in the evaluation of corporate opportunities
- Understand the structure of the oil and gas business

# Who is this Course for?

**This course is designed for both technical and non-technical personnel as well as operational staff at professional levels employed in refineries, petrochemical, and oil and gas process industries. The course is designed to be of substantial benefit to personnel within the Oil and Gas Industries such as:**

- Technologists
- Mechanical engineers
- Safety and Inspection engineers
- Operations, Maintenance or project engineers
- Anyone requiring a broad understanding of the structure, operations and economics of the oil and gas industries

# How will this be Presented?

This course will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. This programme is a hands-on, stimulating learning experience that is highly interactive, with many opportunities to advance ones opinions and ideas. Participation is encouraged in a supportive environment that ensures that the concepts introduced during the programme are understood.

# The Course Content

## Day One : Origins of Petroleum

- Origins of oil & gas
- Petroleum chemistry
- Petroleum geology
- Exploration & production of petroleum
- Types of Well
- Development of Oil and gas fields

## Day Two : World Energy Markets

- Pipeline geopolitics
- OPEC (Organization of the Petroleum Exporting Countries)
- EIA (Energy Information Administration)
- Statistical review of petroleum consumption and supply
- Distribution transmission and transportation
- Tank farms and storage

## Day Three : Refinery Operations

- Physical separation – Distillation
- Chemical conversion processes
- Blending
- Refinery Complexity
- Refining margins

## Day Four : Gas Processing

- Inlet separation, Dehydration/Dewpoint control
- Contaminants & Pipeline Gas specifications

- Amine Gas Sweetening
- Physical Solvent Processes
- Sulphur Recovery
- Gas compression & Liquefaction

**Day Five : Oil and Gas Management**

- Cost estimation of oil and gas facilities
- Pricing, Trading, Markets, Risk Management
- Crude Benchmarks & price estimation
- Derivatives – Futures, Options and Swaps
- Climate Change & Renewable Energy
- Course Exercises, Evaluation and roundup

**The Scandinavian Academy for Training and Development employs modern methods in training and skills development, enhancing the efficiency of human resource development. We follow these practices:**

- **Theoretical Lectures:**
    - We deliver knowledge through advanced presentations such as PowerPoint and visual materials, including videos and short films.
- **Scientific Assessment:**
    - We evaluate trainees skills before and after the course to ensure their progress.
- **Brainstorming and Interaction:**
    - We encourage active participation through brainstorming sessions and applying concepts through role play.
- **Practical Cases:**
    - We provide practical cases that align with the scientific content and the participants specific needs.
- **Examinations:**
    - Tests are conducted at the end of the program to assess knowledge retention.
- **Educational Materials:**
    - We provide both printed and digital scientific and practical materials to participants.
- **Attendance and Final Result Reports:**
    - We prepare detailed attendance reports for participants and offer a comprehensive program evaluation.
- **Professionals and Experts:**
    - The programs scientific content is prepared by the best professors and trainers in various fields.
- **Professional Completion Certificate:**
    - Participants receive a professional completion certificate issued by the Scandinavian Academy for Training and Development in the Kingdom of Sweden, with the option for international authentication.
- **Program Timings:**
    - Training programs are held from 10:00 AM to 2:00 PM and include coffee break sessions during lectures.