

**TRAINING TITLE**  
**PETROLEUM TECHNOLOGY**

**Training Duration**  
5 days

**Training Venue and Dates**

RE2204	Petroleum Technology	5	08-12 Jan. 2024	\$6,500	London, U. K
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In any of the 5-star hotels. The exact venue will be informed later.

**Training Fees**

- \$6,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch

**Training Certificate**

Define Management Consultants Certificate of course completion will be issued to all attendees.

**COURSE OBJECTIVES:**

The program provides a comprehensive and concise overview of the technology used in oil and gas exploration, drilling methods, production, and post-production processes, as well as the use of petroleum derivatives. Additionally, it emphasizes the importance of industrial safety.

- Introduction to Oil and Gas Formation and Exploration Methods
- Oil and Gas Extraction Processes
- Oil Production and Refining Processes
- Utilizing Technology in Industrial Safety

**TRAINING METHODOLOGY**

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your questions and to share in the development of the right answers using your analysis and experiences. Tests of the multiple-choice type will be made available daily to examine the effectiveness of delivering the course.

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Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work& Practical Exercises
- 20% Videos& General Discussions

### WHO SHOULD ATTEND?

Newly appointed employees in the oil sector, including engineers, accountants, lawyers, and those transferred from other sectors to the oil sector.

### COURSE OUTLINE

#### **Day 1**

##### **Chapter One: The History of the Oil and Gas Industry Worldwide**

- The Discovery of Oil and Gas Worldwide
- Modern Era of the Oil and Gas Industry
- Oil and Gas Industry in Kuwait
- Kuwait Petroleum Corporation
- Subsidiary Companies of the Corporation
- Confirmed Oil and Gas Reserves
- Kuwait's Oil Exports
- Specifications of Kuwaiti Crude Oil

##### **Chapter Two: About Crude Oil and Natural Gas**

- What is Crude Oil - Chemical Composition
- What is Natural Gas - Chemical Composition
- Theories of Formation
- Quality Standards for Crude Oil
- Quality Standards for Natural Gas
- Importance and Uses of Crude Oil
- Importance and Uses of Natural Gas
- Fossil Fuels and Environmental Fuels

#### **Day 2**

##### **Chapter Three: Stages of Oil and Natural Gas Extraction**

- Industry Sectors
- Exploration and Discovery Stage

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- Evaluation Stage
- Development Stage
- Production Stage
  - Primary
  - Secondary
  - Enhanced
  - Artificial Lift Methods
- Oil and Gas Processing
- Transportation and Storage Methods

**Chapter Four: Well Drilling and Completion Operations**

- Types of Wells
- Onshore and Offshore Drilling Equipment
- Cost of Onshore and Offshore Drilling
- Well Completion - Objectives and Equipment

**Chapter Five: Crude Oil Refining**

- Importance of Refining Operations
- Stages of Crude Oil Refining
- Refining Products
- Petrochemical Industry

**Day 3**

**Chapter Six: Global Oil and Natural Gas Trade**

- International Organizations for Oil and Gas
- Principles of Oil Pricing
- Principles of Gas Pricing
- Oil and Gas Trading Contracts

**Chapter Seven: Industrial Safety, Occupational Health, and the Environment**

- Risks in the Crude Oil Industry
- Safety Measures
- Environmental Impact
- Zero Emissions Goal
- Oil Spills

**Illustrative Methods Used:**

- Scientific material in PDF format
- PowerPoint presentations
- Video presentations covering certain aspects of the course

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- Case studies with discussions

NOTE:

**Pre & Post Tests will be conducted.**

**Case Studies, Group Exercises, Group Discussions, Last Day Review and assessments will be carried out.**

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