



## **External Training Course**

### **Advanced Petroleum Operations Skills: Reliability, Safety & Digital Tools**

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**From 22 Sep. To 26 Sep. 2025**

**From 13 Oct. To 17 Oct. 2025**

**From 10 Nov. To 14 Nov. 2025**

**From 15 Dec. To 19 Dec. 2025**

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**The H Dubai Hotel, Dubai, UAE**

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**External Training Course:**

**Advanced Petroleum Operations Skills:  
Reliability, Safety & Digital Tools**

**From 22 Sep. To 26 Sep. 2025**

**Fees: 1300 KD**

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**Course Overview**

This professional training program is designed to equip petroleum operations employees with advanced skills to manage day-to-day operational challenges efficiently and safely. The course emphasizes practical approaches to reliability, digital tools, safety, and sustainable operations. Participants will gain hands-on knowledge and actionable skills to enhance operational performance, reduce downtime, and contribute effectively to organizational goals.

**Course Objectives**

**By the end of this program, participants will be able to:**

- Understand the core principles of petroleum operations in production and processing environments.
- Apply best practices for reliability, preventive maintenance, and asset management.
- Enhance operational safety awareness and risk management skills.
- Utilize digital tools and basic AI applications to monitor and improve operations.
- Implement sustainable practices to reduce energy consumption and emissions.
- Adapt to emerging technologies and prepare for future operational challenges.

**Training Methodology**

Interactive expert-led lectures.

Case studies from leading international oil & gas companies.

Hands-on workshops and group exercises.

Problem-solving simulations of real-world challenges.

Peer-to-peer discussions and experience sharing.

**Personal Impact**

Enhanced technical skills and operational confidence.

Ability to apply digital, safety, and sustainable practices effectively.

Improved problem-solving and decision-making in daily tasks.

### **Organisational Impact**

Increased operational efficiency and reliability.

Reduced downtime and improved asset utilization.

Safer work environment and lower incident rates.

Workforce readiness for digital and sustainable operational practices.

### **Course Modules & Content**

#### **Day 1 – Core Petroleum Operations**

- Introduction to Petroleum Operations
- Overview of Production & Processing Workflows
- Roles and Responsibilities of Operations Staff
- Key Performance Indicators (KPIs) and Operational Standards
- Practical Exercises: Daily Operational Routines

#### **Day 2 – Reliability and Maintenance Practices**

- Fundamentals of Equipment Reliability
- Preventive vs Predictive Maintenance
- Techniques to Minimize Downtime
- Asset Integrity and Lifecycle Management Basics
- Case Studies: Real-World Reliability Challenges

#### **Day 3 – Safety and Risk Management**

- Safety Culture and Compliance Requirements
- Hazard Identification and Risk Assessment
- Incident Prevention and Emergency Preparedness
- Tools and Methods for Operational Safety
- Workshop: Safety Scenarios and Role-Play

#### **Day 4 – Digital Tools for Operations**

- Introduction to SCADA and Monitoring Systems
- Real-Time Data Collection and Dashboard Utilization
- Basic AI Applications in Operations
- Data-Driven Decision-Making
- Hands-On Session: Using Digital Tools in Operations

#### **Day 5 – Sustainable Operations & Future Readiness**

- Energy Efficiency in Petroleum Operations
- Reducing Operational Emissions and Environmental Impact
- Waste Management Best Practices
- Preparing for Technological Changes in Operations
- Personal Development & Career Growth in Petroleum Operations
- Final Workshop: Integrating Skills into Daily Operations

### **Course Agenda (Bilingual A/E):**

#### **(1<sup>st</sup> Day) Agenda**

8.30	9.00	Opening Remarks (30 Min.).
9.00	11.30	<u>Discuss Course Major Points:</u> <ul style="list-style-type: none"> <li>• Core Petroleum Operations.</li> <li>• Reliability and Maintenance Practices.</li> <li>• Safety and Risk Management.</li> <li>• Digital Tools for Operations.</li> <li>• Sustainable Operations &amp; Future Readiness.</li> </ul>
11.30	12.00	Coffee Break
12.00	14.00	<u>Core Petroleum Operations:</u> <ul style="list-style-type: none"> <li>• Introduction to Petroleum Operations.</li> <li>• Overview of Production &amp; Processing Workflows.</li> <li>• Roles and Responsibilities of Operations Staff.</li> <li>• Key Performance Indicators (KPIs) and Operational Standards.</li> <li>• Practical Exercises: Daily Operational Routines.</li> </ul>
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

#### **(2<sup>nd</sup> Day) Agenda**

9.00	11.30	<u>Reliability and Maintenance Practices:</u> <ul style="list-style-type: none"> <li>• Fundamentals of Equipment Reliability.</li> <li>• Preventive vs Predictive Maintenance.</li> <li>• Techniques to Minimize Downtime.</li> </ul>
11.30	12.00	Coffee Break
12.00	14.00	<u>Reliability and Maintenance Practices:</u> <ul style="list-style-type: none"> <li>• Asset Integrity and Lifecycle Management Basics.</li> <li>• Case Studies: Real-World Reliability Challenges.</li> </ul>
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

## (3<sup>rd</sup> Day) Agenda

9.00	11.30	<u>Safety and Risk Management:</u> <ul style="list-style-type: none"> <li>• Safety Culture and Compliance Requirements</li> <li>• Hazard Identification and Risk Assessment</li> <li>• Incident Prevention and Emergency Preparedness</li> </ul>
11.30	12.00	Coffee Break
12.00	14.00	<u>Safety and Risk Management:</u> <ul style="list-style-type: none"> <li>• Tools and Methods for Operational Safety</li> <li>• Workshop: Safety Scenarios and Role-Play</li> </ul>
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

## (4<sup>th</sup> Day) Agenda

9.00	11.30	<u>Digital Tools for Operations:</u> <ul style="list-style-type: none"> <li>• Introduction to SCADA and Monitoring Systems</li> <li>• Real-Time Data Collection and Dashboard Utilization</li> <li>• Basic AI Applications in Operations</li> </ul>
11.30	12.00	Coffee Break
12.00	14.00	<u>Digital Tools for Operations:</u> <ul style="list-style-type: none"> <li>• Data-Driven Decision-Making</li> <li>• Hands-On Session: Using Digital Tools in Operations</li> </ul>
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

## (5<sup>th</sup> Day) Agenda

9.00	11.30	<u>Sustainable Operations &amp; Future Readiness:</u> <ul style="list-style-type: none"> <li>• Energy Efficiency in Petroleum Operations</li> <li>• Reducing Operational Emissions and Environmental Impact</li> <li>• Waste Management Best Practices</li> </ul>
11.30	12.00	Coffee Break
12.00	14.00	<u>Sustainable Operations &amp; Future Readiness:</u> <ul style="list-style-type: none"> <li>• Preparing for Technological Changes in Operations</li> <li>• Personal Development &amp; Career Growth in Petroleum Operations</li> <li>• Final Workshop: Integrating Skills into Daily Operations.</li> </ul>
14.00	14.30	Questions, Discussion & Conclusion Training Course.
14.30		Buffet Lunch