

Training Title

RISK ANALYSIS & ASSESSMENT

Training Duration

5 days

Training Venue and Dates

Risk Analysis & Assessment	5	10th to 14th August 2025	\$5,500	Cairo, Egypt.
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Trainings will be conducted in any of the 4 or 5 star hotels.

Training Fees

- **5,500 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch.**

Training Certificate

Prolific Consultants FZE Certificate of Course Completion will be issued to all attendees.

COURSE OVERVIEW

COURSE DESCRIPTION

This course focuses on the application of risk management and decision analysis techniques in the petroleum industry. It covers the processes of identifying, assessing, and managing risks associated with exploration, drilling, production, and other petroleum-related activities. The course also emphasizes decision-making techniques to optimize project outcomes, manage uncertainties, and improve the efficiency of operations in a high-risk environment.

COURSE OBJECTIVES:

By the end of the course, participants will be able to understand

- ***Understand the key types of risks in the petroleum industry.***
- ***Identify and assess risks in exploration, drilling, production, and other phases of petroleum projects.***
- ***Apply risk management techniques to mitigate risks and improve project outcomes.***
- ***Utilize decision analysis tools to make informed choices under uncertainty.***
- ***Develop and evaluate risk models and decision trees to support strategic decision-making in petroleum operations.***

SUITABLE FOR:

- ✓ ***Petroleum Engineers***
- ✓ ***Project Managers in the petroleum industry***
- ✓ ***Risk Managers and Analysts***
- ✓ ***Decision Makers in oil and gas operations***

- ✓ *Geologists and Geophysicists involved in petroleum projects*
- ✓ *Finance professionals working in the energy sector.*

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 motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course. Very useful Course Materials will be given.

COURSE OUTLINE :-

Day 1:

Introduction to Petroleum Risks

- *Overview of the petroleum industry and its risks*
- *Types of risks in the petroleum sector (technical, operational, financial, environmental, and safety)*
- *Risk identification and assessment processes*
- *Risk registers and risk documentation*
- *Risk management frameworks and standards in the petroleum industry*

Day 2:

Quantitative and Qualitative Risk Assessment

- *Introduction to qualitative risk assessment techniques (Risk matrix, SWOT analysis)*
- *Quantitative risk analysis methods (Monte Carlo simulation, fault tree analysis)*
- *Probability theory and statistical tools for risk assessment*
- *Estimating the likelihood and impact of risks*
- *Tools and software for risk analysis in petroleum projects*

Day 3:

Decision Analysis in Petroleum Projects

- *Overview of decision analysis in petroleum exploration and production*
- *Decision-making under uncertainty: Expected Value and Utility Theory*
- *Decision trees and influence diagrams*
- *Risk-adjusted decision making in capital investments*
- *Techniques for evaluating petroleum project alternatives*

Day 4:

Risk Mitigation Strategies

- *Identifying strategies for risk mitigation in drilling, exploration, and production*
- *Risk avoidance, reduction, transfer, and acceptance strategies*

- *Implementing risk management plans in petroleum operations*
- *The role of insurance, hedging, and contractual risk allocation*
- *Environmental and regulatory risk management*

Day 5:

Advanced Topics in Risk Management and Decision Analysis

- *Managing risk during petroleum market fluctuations*
- *Evaluating the economic impact of risks in upstream and downstream operations*
- *Incorporating risk management into project life cycles*

Case Studies, Last Day Review, Discussions & Pre & Post Assessments will be carried out.

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