

# UNDERSTANDING PETROLEUM EXPLORATION AND PRODUCTION

*“Unlocking the Fundamentals of Petroleum E&P for Operational Excellence”*

## Schedule

Date	Venue	Fees (Online)
15 - 16 Jun 2026	Online	USD 700 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

## Introduction

Petroleum exploration and production (E&P) are the core activities of the oil and gas industry, requiring a deep understanding of geology, reservoir management, and production techniques. This course provides participants with a practical overview of the E&P lifecycle, from exploration to production, focusing on operational, technical, and economic considerations. Attendees will gain insight into industry practices, workflows, and decision-making processes that drive successful petroleum operations.

Through interactive online sessions, case studies, and exercises, participants will learn how to evaluate exploration prospects, understand drilling and production methods, and manage reservoir performance effectively. The course emphasizes practical knowledge that supports safe, efficient, and profitable petroleum operations.

## Objectives

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

- Understand the fundamentals of petroleum exploration and production.
- Identify key processes and technologies in E&P operations.
- Evaluate exploration prospects and assess production potential.
- Understand reservoir behavior and production optimization techniques.
- Apply best practices for operational efficiency and risk management.
- Develop a holistic understanding of the E&P lifecycle in the oil and gas sector.

## Why Attend

Participants should attend this course to:

- Gain a solid understanding of petroleum E&P principles.
- Learn the technical and operational aspects of oil and gas production.
- Improve decision-making and risk assessment in E&P operations.
- Enhance operational efficiency, safety, and productivity.
- Develop practical knowledge applicable to oil and gas industry projects.

## Target Audience

This program is designed for:

- Oil and gas engineers and technical staff
- Production and reservoir engineers
- Operations and project managers
- Professionals involved in exploration, drilling, and production
- Technical staff seeking a comprehensive overview of petroleum operations

## Individual Benefits

Key competencies that will be developed include:

- Understanding exploration and production processes
- Evaluating petroleum reservoirs and production methods
- Applying operational and technical knowledge to optimize performance
- Understanding risk management and best practices in E&P
- Enhancing industry-specific decision-making skills

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved operational efficiency in exploration and production activities
- Enhanced technical knowledge to support decision-making
- Better risk management and safety practices in petroleum operations
- Optimized production performance and resource utilization
- Stronger alignment between technical staff and organizational goals

## Instructional Methodology

The course follows a blended online learning approach combining theory with practical application:

- Strategy Briefings – Overview of petroleum E&P lifecycle, technologies, and processes
- Case Studies – Real-world examples of exploration and production projects
- Workshops – Exercises on reservoir evaluation, production analysis, and operational planning
- Peer Exchange – Discussions on challenges, solutions, and lessons learned in petroleum operations
- Tools – Templates for E&P project evaluation, risk assessment, and performance analysis

## Course Outline

Detailed 2-Day Course Outline

Training Hours: 9:00 AM – 5:00 PM Daily Format: 3–4 Learning Modules | Online Breaks: 11:00 & 03:00

Day 1: Fundamentals of Petroleum Exploration

Module 1: Introduction to Petroleum E&P (09:00 – 11:00)

- Overview of exploration and production lifecycle
- Key technologies and methods in exploration
- Geological and geophysical considerations

Module 2: Reservoir Evaluation and Production Planning (11:15 – 01:00)

- Reservoir characterization and modeling
- Production forecasting and optimization
- Risk assessment in exploration and production

Day 2: Production Operations and Management

Module 3: Drilling and Production Techniques (01:45 – 03:00)

- Drilling methods, equipment, and well planning
- Production systems and optimization strategies
- Operational challenges and solutions

Module 4: Best Practices and Case Studies (03:15 – 05:00)

- Lessons learned from E&P projects
- Strategies for operational efficiency and risk mitigation
- Action planning for practical implementation

## Certification

Participants will receive a Certificate of Completion in Understanding Petroleum Exploration and Production, validating their expertise in petroleum E&P fundamentals, reservoir evaluation, production optimization, and operational best practices.

## Why Choose MAWA Events

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