

Fundamentals of Petroleum Production Systems

COURSE OVERVIEW

The Fundamentals of Petroleum Production Systems course provides an introduction to the principles, processes, and technologies in oil and gas production. It covers the entire lifecycle, from exploration and drilling to production and facility management. Participants will learn about production system components, well types, completion techniques, surface facilities, fluid properties, phase behavior, reservoir characteristics, and oil and gas separation. By the end, participants will understand petroleum production systems, enabling effective contributions and decision-making in oil and gas operations.

WHO SHOULD ATTEND?

The target audience for the course includes engineers, geologists, project managers, and other professionals working in the oil and gas industry who are looking to deepen their understanding of petroleum production systems. It is also suitable for professionals involved in exploration, drilling, production, facility management, and those seeking to enhance their decision-making capabilities in oil and gas operations.

COURSE OUTCOMES

Delegates will gain knowledge and skills to:

- Comprehend and interpret the principles and processes involved in petroleum production systems.
- Gain knowledge of well types, completion techniques, and surface facilities.
- Understand fluid properties, phase behavior, and reservoir characteristics.
- Learn the mechanics of oil and gas separation and production optimization.
- Recognize the importance of safety, environmental considerations, and regulatory compliance.
- Apply best practices in managing petroleum production systems and addressing operational challenges.
- Understand artificial lift methods, pipeline operations, and water treatment processes.
- Gain insights into corrosion management, equipment maintenance, and instrumentation for production monitoring.
- Effectively contribute to decision-making in oil and gas operations with a solid understanding of production systems

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand:

- Principles and processes of petroleum production systems.
- Well types, completion techniques, and surface facilities.
- Fluid properties, phase behavior, and reservoir characteristics.
- Oil and gas separation mechanics and production optimization.
- Safety, environmental considerations, and regulatory compliance.
- Managing production systems and addressing operational challenges.
- Artificial lift methods, pipeline operations, and water treatment.
- Corrosion management, equipment maintenance, and instrumentation.
- Decision-making in oil and gas operations.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded