

PRODUCTION SUBSURFACE OPERATIONS

PRD020

COURSE DESCRIPTION

This course is a technical program that provides in-depth knowledge and practical skills for professionals in the field of subsurface production. Participants will gain a thorough understanding of geology structure, rock properties, fluid properties, and well analysis tools. Through rigorous training and comprehensive exploration of topics, such as faulting, porosity, permeability, fluid saturations, capillary pressure, and performance curves, participants will develop expertise in optimizing production operations. This course is designed for reservoir and production engineers seeking to expand their technical proficiency and achieve superior results in subsurface operations.

COURSE GOAL

To enhance the participants' knowledge, skills, and attitudes necessary to understand production subsurface operations.

COURSE OBJECTIVES

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

- Demonstrate a solid understanding of geology structure.
- Analyze and evaluate rock properties for subsurface operations.
- Comprehend and apply knowledge of fluid properties in production processes.
- Utilize various well analysis tools effectively.
- Make informed decisions based on oil well, gas well, and injection well performance curves.

WHO SHOULD ATTEND

Reservoir & Production Engineers

COURSE DURATION

5 Working Days

COURSE OUTLINES

1. Introduction.
2. Structure geology review.
 - Structure.
 - Faulting.
 - Types & formation of structure.

3. Rock properties.

- Porosity
- Permeability.
- Fluid saturations.
- Capillary pressure.

4. Fluid properties.

- Oil / Gas viscosity.
- Determination of original Oil – in – place.
- Solution Gas drive performance.

5. Well analysis tools.

- Oil well performance curves.
- Gas well performance curves.
- Injection well performance curves

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