

INTRODUCTION TO OIL & GAS: SURFACE PRODUCTION FACILITIES OVERVIEW

1 Day | Kuala Lumpur

Program Overview

The petroleum upstream industry includes the exploration of the oil & gas activities, drilling of the wells, field development plan to develop the intended field, production phases which is producing the oil and gas and lastly is abandonment of the field when the field is not economic anymore.

During the production phases, there are a lot of equipment and system required to receive, process and transport the product either oil or gas. In This session, the participant will go through various system and equipment normally used as a production platform surface facilities.

Who Should Attend?

- ▶ Employees new to the industry
- ▶ Contractors
- ▶ Government policy-makers
- ▶ Professionals and advisors
- ▶ Members of the community seeking a basic understanding of the industry
- ▶ Businesses intending to enter the industry

Learning Objectives

The course is designed to give awareness and understanding regarding the equipment and system used on the production platform surface facilities. At the end of the session, the participant will have a better view on the process flow and equipment used on the production platform.

Course Methodology

- ▶ Interactive Lecture
- ▶ Group Dynamics
- ▶ Case Studies

What will you learn?

- ▶ Learn and understand the various system used in offshore platform surface facilities
- ▶ Understand the inter relation between these various system

Key Modules

- ▶ Wellhead and Christmas tree.
- ▶ Separation system.
- ▶ Static and rotating equipment & system
- ▶ Pipeline network system
- ▶ Storage and offloading system.
- ▶ Metering system.
- ▶ Lifting system
- ▶ Logistic (Aviation & Marine)
- ▶ Chemical injection system
- ▶ Living Quarters

OVERVIEW OF SUBSURFACE OPERATION

- Overview of Petroleum geology
- Overview of Exploration and appraisal operation
- Overview of Drilling and completion operation
- Overview of Field Development Planning (FDP) process

OVERVIEW OF SURFACE OPERATION

- Overview of Field Development Planning (FDP) process
- Overview of engineering process
- Overview of fabrication process
- Overview of load out and installation process
- Overview of surface facilities
- Wellhead & Christmas tree system
- Piping & valve system
- Separation system
- Static & rotating equipment

OVERVIEW OF SURFACE OPERATION

- Lifting equipment system
- Pipeline system
- Chemical injection system

OVERVIEW OF SURFACE OPERATION

- Metering system
- Storage and export system
- Type of storage system





MAARUF MOHAMAD

Maaruf Mohamad has 8 years' experience in upstream oil and gas industry. Currently, he is the mechanical supervisor for NC3, the newly installed gas platform located in Block SK316 within the Central Luconia, Sarawak water. The platform with the processing rate of 600 MMscf/d is supplying gas to the Bintulu onshore receiving facility i.e. Train 9. Prior to joining the NC3 team, he is the offshore maintenance supervisor at Baram platform, located at the Baram Delta, Sarawak water. It is one of the oldest field in Malaysia that is still producing after 30 years. He is responsible in ensuring all planned activities at offshore location are executed within the period allocated without compromising safety.

He graduated from Universiti Teknologi PETRONAS (UTP) in BEng. in Mechanical Engineering and obtained his MSc. in Petroleum Engineering from Universiti Teknologi Malaysia (UTM). On top of that, he holds professional & competency certificates like Internal Combustion Engine (ICE) Grade 1 from DOSH Malaysia, Well Intervention IWCF (Level 2), PSMS Advance Diploma & MME certification from BTEC.

Maaruf Mohamad is a certified HRDF trainer and has the experience of conducting trainings for PETRONAS group especially the Upstream Division such as Sabah Asset (SBA), Sarawak Asset (SK-Oil & SK-Gas) and INSTEP.