

Webinar Talk on Offshore Installation of Jacket Structure: Launching & Upending

CPD Hours : 2 CPD Ref No : IEM24/HQ/032/T(w)

Organised by: Oil, Gas and Mining Technical Division (OGMTD)

SYNOPSIS

The launching and upending of jacket structures can be considered as the most critical phases during an offshore operation. As a result, these activities are placed under high importance during engineering analyses.

Launching of a jacket involves transferring the jacket from the construction yard or barge into the water. It often involves the use of specialized equipment such as launching frames, skidding systems, and/or barges. It also requires a specialized contractor to support the operation.

Upending refers to the process of rotating the jacket from a horizontal position to a vertical position in the water. This is often done using controlled flooding or ballasting of specific compartments on the jacket, causing the latter to rotate into the desired orientation. Once upended, the jacket can be towed to its installation site or prepared for its intended purpose.

Launching and upending are crucial in the installation of offshore structures such as oil platforms and wind turbines. Careful planning and execution are required to ensure the safety and success of the operation. To deeply understand how the structure reacts at each phase, structural engineer and naval architect perform a series of extensive computer simulations. Both must work together to ensure the works are performed accurately

This webinar will cover the following topic:

- What is launching and upending as part of pre-service analysis?
- What is the engineering works involved in each phases
- Examples from past projects

SPEAKER

Ir. Faizal Mahamud

Ir. Faizal is a senior structural engineer who holds prestigious professional engineering qualifications (PEng MIEM). He has extensive engineering experiences in the offshore industry; from conceptual design, FEED and until detailed design. He also has experience in fabrication and offshore installation works, which give him the edge in providing practical and effective engineering solution.

Faizal has successfully delivered numerous offshore projects around the globe involving fixed structures, floatover structures, FPSO and floater-type structures. He graduated from the Universiti Kebangsaan Malaysia (UKM) with a MEng in Civil Engineering, which has equipped him with the necessary skills and knowledge to excel in his career.



Saturday | 17 February 2024 | 9AM – 11AM

Registration Fee:

Student Member: Free | IEM Member: RM15 | Non-Member: RM70

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