

# Webinar Talk on

## AN OVERVIEW OF FABRICATION & CONSTRUCTION ENGINEERING IN FABRICATION YARD


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

BEM APPROVED CPD: 2

REF NO: IEM25/HQ/220/T (w)

### SPEAKERS

1. Encik Mohd Shahrizal bin Mohd Nor
2. Ir. Norzehan Hj Mansor

 21 JUNE 2025, SATURDAY

 9.00am – 11.00am

 ZOOM WEBINAR

**Registration Fee:**

IEM Student: FOC  
IEM Member: RM15  
Non IEM Member: RM70



## SYNOPSIS

Fabrication and construction engineering play a pivotal role in the successful delivery of Oil and Gas Structure – particularly in large-scale fabrication yards where offshore platforms, modules, and Jackets are built.

This technical talk aims to provide an insightful overview of engineering practices that govern fabrication yard operations. Key areas covered include design & drawings interpretation, constructability reviews, work pack planning, welding engineering, structural erection, lifting operations, and integration with project schedules.

Attendees will also gain exposure to typical fabrication engineering deliverables, workflow interfaces with procurement and construction teams, and real-world challenges such as space constraints, concurrent work fronts, and schedule pressures. While focused on the Oil & Gas sector, the session highlights broader engineering principles and management concepts that are applicable across industries – making it relevant for structural, mechanical, piping, electrical, and instrumentation engineers alike.

This talk will benefit professionals seeking to enhance their understanding of construction execution from an engineering lens, whether for cross-disciplinary learning, project coordination, or industrial application.

## SPEAKER'S PROFILES

**Mohd Shahrizal bin Mohd Nor, Manager – Structural & Architectural, Fabrication Engineering, Malaysia Marine and Heavy Engineering (MMHE)**

He graduated with B. Eng (Hons) in Civil Engineering from Universiti Teknologi Malaysia (UTM) in 2003. He has more than twenty two (22) years of extensive and continuous experience in Oil & Gas for offshore and onshore projects. Responsibilities include various constructions and fabrication engineering scope of works ranging from drawings detailing, engineering analysis, procedures, planning & scheduling, technical evaluations of Oil & Gas Projects and Green Energy locally and international projects. Wide exposure on multiple Oil & Gas & Wind farm structures like Topside, Jackets, Hull, Bridges, and Flare Booms.

Currently, he is responsible as 2GW HVDC IJV Alpha Project Engineering Manager leading from engineering detail design scope ie Architectural and Temporary HVA/C in Sharjah Office, UAE and continue with fabrication Engineering in MMHE Yard, Pasir Gudang Johor. This is one of the biggest Tennet Offshore 2GW Offshore Substation (OSS) Windfarm projects consist of 30,089 MT Topside and 10,059 MT 8-legged Jacket which will be installed at Netherlands in 2028.

**Ir. Norzehan Hj Mansor - Senior Manager, Fabrication Engineering, Malaysia Marine and Heavy Engineering (MMHE)**

Graduated with B. Sc. Engineering (Civil) U.S.A. in 1989 and minor in Mathematics and Physics. She is a P. Eng with Practicing Certificate (Civil) and Member of The Institution of Engineers Malaysia (M.I.E.M). She also received Executive Certificate in Project Management, 2002 from University Technology Malaysia in collaboration with Business & Advanced Technology Center (BATC) & EMC Management Center. She has more than 35 years of experience in Oil and Gas industry starting as Structural Engineer, Project Engineering Coordinator, Structural Lead Engineer and more than 15 year in as Discipline / Engineering Manager. Currently she is holding position as Senior Manager, Fabrication Engineering Manager. She also has more than 5 years' experience in Civil and Structural Consultancy Engineering in Building and Infra Structures in U.S.A and Malaysia. She has extensive experience in managing Oil & Gas projects, CPP / WHP Topsides, Jackets, SPAR, Semi-submissible, Hull, Turrets, FPSO and Marine projects engineering team. Leading and managing engineering projects and engineering department including manpower planning, manhours estimation, bidding, yard layout planning and site requirement.