

**BEM APPROVED CPD: 2**  
**REF NO: IEM26/HQ/029/T (w)**



## WEBINAR TALK ON AN INTRODUCTION OF OFFSHORE STRUCTURAL INTEGRITY & ASSURANCE

**Date : 14 February 2026 (Saturday)**

**Time : 9.00 am - 11.00 am**

**Platform : Zoom Webinar**

### Registration Fees:

- Student Member : FOC
- IEM Member : RM 15.00
- Non-Member : RM 70.00

### Synopsis:

Offshore structural integrity and assurance form a critical component of asset lifecycle management, ensuring that offshore facilities remain safe, reliable, and fit for purpose throughout their operational life. The structural integrity framework is established in accordance with API Recommended Practice 2SIM and the Company's Structural Integrity Management System (SIMS), providing a systematic, risk-based approach to managing structural performance from design through decommissioning. This framework integrates design intent, operational requirements, inspection findings, and degradation mechanisms to maintain structural fitness-for-service under prevailing environmental and operational loads.

Structural assurance activities encompass preventive maintenance, corrective maintenance, and comprehensive anomaly management, supported by inspection, monitoring, assessment, and remediation processes. Preventive maintenance aims to mitigate degradation mechanisms such as corrosion, fatigue, and accidental damage, while corrective maintenance addresses identified deficiencies to restore structural capacity. Anomaly assurance ensures that all structural findings are technically evaluated, risk-ranked, and managed through engineering assessments, including strength checks, redundancy evaluation, and life extension analysis where required.

The overall objective of the structural integrity and assurance framework is to ensure that offshore assets remain robust, compliant, and capable of withstanding extreme and accidental load conditions while safely accommodating operational demands. This holistic approach safeguards personnel, protects the environment, and supports sustainable asset operation up to and beyond the original design life, subject to demonstrated structural adequacy.

**Speaker: Ir. Mohd Izwan Mohd Noor** PEng, IEng, IMarEng, MIMarEst, MIMarEng, MIET, MIEM, DPIN

Ir. Mohd Izwan Mohd Noor is a highly accomplished structural and asset integrity professional with more than 20 years of extensive experience across offshore engineering design, project execution, and asset integrity governance within the oil and gas industry. His career spans leading international engineering design houses, EPCIC environments, and operating companies, where he has consistently demonstrated technical authority, strategic leadership, and engineering excellence. He has held pivotal roles ranging from Senior and Lead Structural Engineer to Assets Governance and Assurance Lead, providing end-to-end stewardship from conceptual design, FEED, detailed design, and installation through to operations, life extension, and decommissioning.

Currently, he serves at Hibiscus Petroleum as the Technical Authority and Engineer-in-Charge for the Structural Integrity Program, where he leads the development, implementation, and assurance of structural integrity management frameworks aligned with regulatory and industry best practices. His expertise encompasses offshore structural assessment, asset life extension, anomaly management, and risk-based integrity assurance, supported by hands-on experience in major offshore campaigns and brownfield modifications. In parallel with his professional responsibilities, he actively contributes to the engineering profession as a committee member under the Oil, Gas & Mining Technical Division and the Marine Engineering and Naval Architecture Technical Division, reinforcing his standing as a respected industry leader, subject-matter expert, and trusted authority in offshore structural integrity and assurance.