OFFSHORE STRUCTURE DESIGN, CONSTRUCTION, INSPECTION & MAINTENANCE

4 - 8 October 2015 / Dubai, UAE

WHO SHOULD ATTEND?

Senior engineer, Projects Engineer, Design Engineer, Construction Engineers, Maintenance Engineers and Project Managers

INSTRUCTOR : MOHAMED A. EL-REEDY,

Mohamed A. El-Reedy's background is in structural engineering. His main area of research is the reliability of concrete and steel structures. He has provided consulting to different engineering companies and oil and gas industries in Egypt and to international companies such as the International Egyptian Oil Company (IEOC) and British Petroleum (BP). He has participated in Liquified Natural Gas (LNG) and Natural Gas Liquid (NGL) projects with international engineering firms. Currently, Dr. El-Reedy is responsible for reliability, inspection, and maintenance strategy for onshore concrete structures and offshore steel structure platforms.

Dr. El-Reedy has consulted with and trained executives at many organizations, including the Arabian American Oil Company (ARAMCO), BP, Apachi, Abu Dhabi Marine Operating Company (ADMA), the Abu Dhabi National Oil Company, King Saudi's Interior Ministry, Qatar Telecom, the Egyptian General Petroleum Corporation, SABIC, Kuwait Petroleum Corporation, and Qatar Petrochemical Company (QAPCO). He has taught technical courses about repair and maintenance for reinforced concrete structures and the advanced materials in concrete industry worldwide, especially in the Middle East.

Dr. El-Reedy has written numerous publications and has presented many papers at local and international conferences sponsored by the American Society of Civil Engineers, the American Society of Mechanical Engineers, the American Concrete Institute, the American Society for Testing and Materials, and the American Petroleum Institute. He has published many research papers in international technical journals and has authored many books published worldwide about advanced materials in concrete construction and corrosion of reinforced concrete structure, construction management and design of industrial concrete and steel structures and Project management for industrial projects.

ABOUT EVENT

This course will illustrate all information about fixed offshore structure platforms. This course will describe all the types of the platforms and their basic of design.

The basic design and loads that affect the offshore structure platform will be discussed in detail with the up-to-date method of structure analysis as the pushover structure analysis.

The selection of the proper configuration and layout of the platform will be illustrated. These days, there are platforms that have a lifetime of over 40 years, so there is a requirement to evaluate the existing platform to understand its expected life span or if it can increase the load due to an increase in the number of wells. Therefore the ROV inspection methodology will be presented and the method of underwater inspection.

The construction and repair of the mature structure will be discussed in this course. The risk-based under water inspection with up-to-date methodology will be presented in this course.

Overview about SACS software.

COURSE OBJECTIVES

This course offering will review the fundamentals behind all types of fixed offshore structures and, in the case of fixed platforms, will cover applications of these principles.

The overall objective is to provide participants with an understanding of the design, construction and risk-based maintenance for offshore platforms, specifically, the theory and process of such design. The use of current, applicable engineering methods in the design of fixed offshore platforms will be based on API RP2A.

In addition to the traditional lecture delivery, the course delivery emphasizes the use of group discussions and actual design problems in order to ensure participants can put the newly learned concepts to use.

FEE	1 PAX	3 PAX OR MORE
Per Person	USD 4695.00	USD 4395.00
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COURSE AGENDA

DAY 1

- Principal of project management for fixed offshore structure platform.
- Different types of fixed offshore structure
- Loads effects on Fixed offshore structure
- Design Parameters Specifications

DAY 2

- General Design Considerations;
- Basics design of fixed offshore platforms
- Offshore Site Investigation
- Wave Theories; Spectral Analysis Application;
- Wind and Wave Forces, Computational Hydrodynamics
- Buoyancy and Stability;
- Geotechnical Engineering for offshore structure
- Design based on API and ISO

DAY 3

- Offshore Piles design philosophy
- Fundamental Concepts and Case Studies for Laterally Loaded Piles
- Design of Pile Foundations for Axial Loading
- Concept of design steps by computer software as (SACS, SESAM,…)
- Basic concepts of dynamic analysis
- Basics of Earthquake and Seismic Analysis with API approach
- Fatigue analysis

DAY 4

- Pushover analysis
- Design of Tubular Members,
- Welding & Fatigue;
- Topsides and jacket design
- Different types of jacket
- Construction steps on site
- Platform optimum configuration
- Platform construction (Case study)
- Structure installation of the platform
- Lifting analysis

DAY 5

- Structural Reliability
- Load Out Transportation & Installation
- Structure model in loadout, lifting and seafasetining
- Repair procedure for damage members (practical cases)
- Increase platform capacity
- Structure integrity principal
- Risk based maintenance and ROV inspection technique
- SACS software overview

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