FIXED OFFSHORE STRUCTURES DESIGN, CONSTRUCTION AND MAINTENANCE

OBJECTIVES:

This course is consisting of 5 topics with 9 webinars. This course provides review the fundamentals behind all types of fixed offshore structures and will focus in detail about the fixed offshore structures. The project management technique that will be used in these types of structure with the most up to date method of effective project management will be discussed in detail.

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 by knowing all loads affect the structure and the behavior and method of design the very critical part of the offshore structure.

The construction steps which include fabrication, installation, load out and launching will be discussed from design point of view and also construction management and the tricks in construction process.

The integrity management system will be discussed by a case study for a fleet of platforms by using qualitative and quantitative risk assessment in addition to define the scope of the underwater inspection.

Course Outline:

**Topic 1: Characteristics of offshore structure**

Session 1.1: Types of offshore structure and Project management for offshore structure (main keys)  1:30hr

**Topic 2: Design of Fixed Offshore Structure**

Session 2.1  Loads affect the fixed offshore structure  1hr

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Session 2.2 Design for different members 1:30hr
Session 2.3 Geotechnical investigation and pile design 1hr

**Topic 3: Construction Fixed offshore platform**

Session 3.1: Construction steps and quality control on site 1hr
Session 3.2: Load out and launching 1hr

**Topic 4: Integrity system for offshore structure**

Session 4.1: Integrity management system for platforms fleet 1:30hr

**Topic 5: SACS software overview**

Session 5.1: Introduction, in place analysis, Pile soil interaction with example.
Session 5.2: Dynamic characteristics module, jointcan, loadout and another modules with example

**Tools and document:**

All the presented materials will be on hand to the participants.

All these seminars will include videos form illustration with example of design.

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Benefits of Live E-learning

- Attend lessons in a live, virtual classroom with your instructor and fellow students
- Upgrade your skills and refresh your knowledge without having to take valuable time away from work
- Receive information and materials in small, easy to digest sections
- Learn from almost anywhere - all you need is an Internet connection
- Have constant support from your course instructors and coordinator for the duration of the course
- Interact and network with participants from around the globe and gain valuable insight into international practice
- Learn from international industry experts
- Live interactive webinars, not just a ‘book on the web’

Fee and Payment

The fee is 120 USD $ per session, the payment will be through transfer to the bank account for 7 working days before start the seminar. Except Topics 150USD/Seminar. You can select any of the seminar you request from any topics.

What do I need?

An adequate Internet connection, speakers and a microphone. A headset is recommended. The necessary software and course materials are provided by us.

Doesn’t it get boring? How can an e-Learning course be interactive?

Boredom can be a real risk in any form of learning; however, we use an interactive approach to our e-Learning – with live sessions (instead of recordings) for most presentations. The webinar allows everyone to interact and involves participants in exercises with simulation software and remote laboratories where possible. You can communicate with text messages, or live VoIP speech, or can even draw on the whiteboard during the sessions. This all helps to keep you motivated and interested.

What do live webinars involve?

These are live, interactive sessions over the Internet. You will join the instructor and other participants from around the world in an online ‘virtual classroom’ where you are able to watch a presentation, and communicate with the instructor and other students via audio, text messaging or drawing on the whiteboard. Each webinar is between 60 and 90 minutes in duration and the sessions are scheduled at 2 or 3 different times during the presentation day. This allows you to select the session which is most convenient.

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Moha med 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). Moreover, he provides different concrete and steel structure design packages for residential buildings, warehouses, and telecommunication towers and electrical projects with WorleyParsons Egypt. 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. He has performed these tasks for hundreds of structures in the Gulf of Suez in the Red Sea.

Dr. El-Reedy has consulted with and trained executives at many organizations, including the Arabian American Oil Company (ARAMCO), bp, Apache, Abu Dhabi Marine Operating Company (ADMA), the Abu Dhabi National Oil Company, King Saudi’s Interior ministry, Qatar Telecom, the Egyptian General Petroleum Corporation, Saudi Arabia Basic Industries Corporation (SAPIC), the Kuwait Petroleum Corporation, and Qatar Petrochemical Company (QAPCO).

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 four books about total quality management, quality management and quality assurance, economic management for engineering projects, and repair and protection of reinforced concrete structures. He received his bachelor’s degree from Cairo University in 1990, his master’s degree in 1995, and his Ph.D from Cairo University in 2000.