

Training Title

OFFSHORE STRUCTURAL DESIGN TRAINING

Training Duration

5 days

Training Venue and Dates

REF OE012	Offshore Structural Design	5	06-10 May	\$4,500	Dubai, UAE
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In any of the 5 star hotel. The exact venue will be informed once finalized.

Training Fees

- 5,000 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

The course provides a broad overview of design, analysis and construction of offshore structures, one of the most demanding set of tasks faced by the engineering profession. Over and above the usual conditions and situations met by land-based structures, offshore structures have the added complication of being placed in an ocean environment where hydrodynamic interaction effects, water wave theories and structure-fluid interaction in waves become major considerations in their design.

COURSE OBJECTIVES

- Develop the necessary knowledge and skills to equip professionals with a successful career through the development of critical, analytical, problem-based learning
- Apply and gain an in-depth knowledge on the different types offshore structures and designs
- Discuss offshore structures particularly their construction, design and maintenance issues
- Gain a good understanding of codes, regulations and standards
- Get familiar to different types of offshore structure and their designs
- Get an understanding of calculating design strength, durability and design life cycle
- Understand the various factors involved in decision making of type of offshore platform to be used according to the requirements
- Understand the stability criteria for all the massive structure floating offshore
- Develop an understanding of wave theories and spectral analysis

WHO SHOULD ATTEND?

- Structural Engineer

- Pipeline Engineer
- Subsea Engineers
- Graduate Engineer
- Conversant Engineer switching industries and discipline
- Government regulators and analysts
- Classification society

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

TRAINING SCHEDULE

Day 1:

- Introduction to offshore structures
- Different types of offshore structure
- Loads effects on offshore structure
- Design Parameters Specifications
- General Design Considerations
- Basics design of offshore platforms

Day 2:

- Design methodology for floating structure
- Different types of floating structure
- Basic concept and dynamic analysis
- Structure optimum configuration
- Structure Reliability

Day 3:

- Design methodology for Tension Legged Platform
- Different types of Tension Legged Platform
- Basic concept and dynamic analysis for Tension Legged Platform

- Structure optimum configuration
- Structure Reliability

Day 4:

- Topsides and jacket design
- Different types of jacket
- Basic concepts of dynamic analysis
- Platform optimum configuration
- Platform construction (Case study)
- Structural Reliability

Day 5:

- Wave Theories; Spectral Analysis Application
- Wind and Wave Forces, Computational Hydrodynamics
- Buoyancy and Stability
- Geotechnical Engineering for offshore structure
- Offshore design philosophy
- Codes, Standards and Regulations

Case Studies, Discussions, Last Day Review & Assessments will be carried out.

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