

**TRAINING TITLE**

**OFFSHORE STRUCTURE PLATFORM DESIGN**

**Training Duration**

**5 day**

**Training Venue and Dates**

SM166	Offshore Structure Platform Design	5	16-20 June 2025	\$5,500	DUBAI, UAE
-------	------------------------------------	---	-----------------	---------	------------

In any of the 4 or 5-star hotels. The exact venue will be informed later.

**Training Fees**

- \$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch

**Training Certificate**

**Define** Management Consultants Certificate of course completion will be issued to all attendees.

**TRAINING DESCRIPTION**

This course focuses on the design, construction, and analysis of offshore structure platforms. It covers the key principles of structural design, materials, load considerations, and safety protocols required for offshore platforms in oil, gas, and renewable energy industries. Participants will learn about the various types of offshore platforms, structural integrity, and industry standards involved in the design and maintenance of these structures.

**TRAINING OBJECTIVES**

**By the end of the course, participants will be able to understand**

- Understand the fundamental principles of offshore platform design.
- Learn about the different types of offshore platforms (fixed, floating, and jack-up platforms).
- Understand the loads and environmental conditions affecting offshore structures.
- Gain knowledge of the materials and construction methods used in offshore platform design.
- Learn about safety, regulations, and standards for offshore platforms.

**WHO SHOULD ATTEND?**

- Structural engineers and design engineers involved in offshore projects.

DMCT/OL/9/18(Rev3Dt:23/9/18)

- Project managers and professionals working in offshore oil, gas, or renewable energy sectors.
- Marine engineers and technicians.

### **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 motivating everybody to 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

### **COURSE PROGRAM**

#### **Day 1: Introduction to Offshore Platforms**

- Overview of offshore platforms and their role in the oil, gas, and renewable energy industries
- Types of offshore platforms: Fixed, floating, and jack-up platforms
- Key design considerations and challenges in offshore platform construction
- Safety and regulatory requirements for offshore structures

#### **Day 2: Structural Design Principles for Offshore Platforms**

[www.definetraining.com](http://www.definetraining.com)

- Basic structural design concepts for offshore platforms
- Load analysis: Dead loads, live loads, environmental loads (wind, waves, seismic, etc.)
- Structural integrity: Materials, strength, and fatigue analysis
- Introduction to design codes and standards (API, ISO, DNV, etc.)

#### **Day 3: Environmental Considerations and Load Analysis**

- Environmental forces acting on offshore platforms: Waves, wind, tides, and currents
- Load distribution and structural response to dynamic forces

*DMCT/OL/9/18(Rev3Dt:23/9/18)*

- Structural stability and buoyancy analysis for floating platforms
- Seismic considerations and safety factor application

#### **Day 4: Materials and Construction Techniques for Offshore Platforms**

- Materials used in offshore platform construction: Steel, concrete, composites
- Corrosion protection and maintenance strategies for offshore structures
- Construction methods: Platform fabrication, installation, and offshore welding techniques
- Foundation design for fixed offshore platforms (pile foundations, jacket structures)

#### **Day 5: Offshore Platform Safety, Maintenance, and Future Trends**

- Health, safety, and environmental regulations for offshore platforms
- Risk management and safety systems (fire suppression, evacuation plans)
- Inspection, monitoring, and maintenance of offshore platforms
- Future trends in offshore platform design: Renewable energy platforms, automation, and new materials

#### **NOTE:**

**Pre-& Post Tests will be conducted.**

**Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.**

.....  
[www.definettraining.com](http://www.definettraining.com)

DMCT/OL/9/18(Rev3Dt:23/9/18)

P.O BOX 45304  
ABU DHABI, U.A.E

T +971 2 6264455  
F +971 2 6275344

[www.definettraining.com](http://www.definettraining.com)