

An Intensive 5-Day Training Seminar On

Offshore Structure Design, Construction, Inspection, Maintenance and Repair

01 - 05 Dec 2019, Abu Dhabi

07 - 11 Jun 2020, Dubai

29 Nov - 03 Dec 2020, Abu Dhabi



 View Details

Offshore Structure Design, Construction, Inspection, Maintenance and Repair

INTRODUCTION

The aim of this EuroMaTech training course is to provide the participants with a complete and up-to-date overview of offshore structures engineering in general and steel jackets in particular. It will give a picture of the work of ocean and structural design engineering, using case studies to highlight the topics discussed.

This Offshore Structure Design, Construction, Inspection, Maintenance and Repair training course will illustrate all information about fixed offshore structure platform. 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; the construction and repair of the mature structure; and the risk-based under water inspection with up-to-date methodology will be illustrated in this EuroMaTech training course.

PROGRAMME OBJECTIVES

- An understanding of the planning, concept development, design, construction, installation, operation, inspection and maintenance of Offshore Structures
- An understanding of the design, construction and risk based maintenance for offshore platforms, specifically, the theory and process of such design
- The ability to determine new technology for material of surface and subsurface structures
- An understanding of the use of current, applicable engineering methods in the design of fixed offshore platform
- Familiarity with most updated inspection and maintenance techniques for the offshore structures
- The skills to know the different types of offshore structures including its advantages and disadvantages and design requirements
- The capability to recognize the codes of inspection and the identify the types of preventive and recommended practices for maintenance in offshore structures

WHO SHOULD ATTEND?

- Project / Design / Construction Engineers
- Project Managers from Oil & Gas, Construction, Design and Installation Companies and Regulatory Authorities
- Those who have recently moved into Offshore Structural Engineering
- Those who hold broad responsibilities that include Offshore Structures

TRAINING METHODOLOGY

The Offshore Structure Design, Construction, Inspection, Maintenance and Repair training course will combine presentations with interactive practical exercises, supported by video materials, activities and case studies. Delegates will be encouraged to participate actively in relating the principles of stress management to the particular needs of their workplace.

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

PROGRAMME SUMMARY

This EuroMaTech training course will cover all types of fixed offshore structures and, in the case of fixed platforms, applications of these principles. The use of current, applicable engineering methods in the design of fixed offshore platforms will be explored.

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.



EuroMaTech is recognized by the Society for Maintenance & Reliability Professionals (SMRP) as an Approved Provider. The SMRP Approved Provider status allows EuroMaTech to host a number of maintenance & reliability related continuing education trainings.

This training course is approved by SMRP to issue 25 Continuing Education Course Hours (CECHs) towards recertification of CMRP, CMRT or CAMA credentials.

PROGRAM OUTLINE

DAY 01

Introduction to Offshore Structures and Standards

- Types of Offshore Structures with illustrated videos and animations
- Design Parameters, Standards and Specifications
- General Considerations for Design
- Standard and Special Steels
- Material Selections
- Cost Optimization by Design
- Loads Effects on Offshore Structures

DAY 02

Metocean, Wave Loading and Buoyancy

- Offshore Site Investigations
- Meteorological and Oceanographically Data
- Wave Theories
- Wind and Wave Forces
- Buoyancy and Stability
- Introduction for Subsea Structures Facilities
- New Technology for Material of Surface and Subsurface Structures

DAY 03

Geotechnics, Piles and Structural Analysis

- Geotechnical Engineering for Offshore Structures
- Offshore Pile Design
- Design of Axially Loaded Piles
- Design of Laterally Loaded Piles
- Design by Computer (*SACS, SESAM, etc.*)
- Topsides and Jacket Designs
- Optimum Platform Configurations

DAY 04

Detailed Design and Specialized Analysis

- Design of Tubular Members and Tubular Joints
- Welding and Weld Design
- Concepts of Dynamic Analysis
- Spectral Analysis
- Fatigue Design – *Deterministic and Spectral*
- Earthquake and Seismic Analysis
- Load Out, Transportation and Installation
- Marine Operations

DAY 05

Structural Integrity, Repair, Risk and Reliability

- Inspection of Offshore Structures
- Codes of Inspection
- Inspection Reporting
- Maintenance and Remedy Action
- Types of Preventive Maintenance for Offshore Structures
- Recommended practices for maintenance of offshore Structures
- Structural Reliability
- Structure Integrity Principles
- Repair Procedure for Damaged Members
- Risk Assessment

IN-HOUSE TRAINING

EuroMaTech is capable of conducting this training programme exclusively for your delegates. Please e-mail us on inhouse@euromatech.ae for further information and/or to receive a comprehensive proposal.

QUALITY CERTIFICATIONS & ACCREDITATIONS

EuroMaTech is proud to be associated with the following accreditation bodies:



The PMI® Registered Education Provider logo is a registered mark of the Project Management Institute, Inc.

Offshore Structure Design, Construction, Inspection, Maintenance and Repair

✓	Date	Venue	Fee(\$)
	01 - 05 Dec 2019	Abu Dhabi	US\$4,950
	07 - 11 Jun 2020	Dubai	US\$4,950
	29 Nov - 03 Dec 2020	Abu Dhabi	US\$4,950

*This fee is inclusive of instruction materials, documentation, lunch, coffee/tea breaks & snack. All Fees are subject to 5% Value Added Tax (VAT).**

Your Details

Name (Mr/Ms):.....
 Position:..... Organisation:.....
 Address:.....

 City / Country:
 Telephone / Fax:

Mode Of Payment

- Please find enclosed a cheque made payable to EuroMaTech
 Please invoice me
 Please invoice my company as follows:

Contact Name:
 Company Name:
 Address:.....

Documentation

High Quality material has been prepared by the Seminar Leader for distribution to delegates. In addition, a special note pad to facilitate note taking will be provided.

Certificates

A Certificate of Completion will be issued to those who attend & successfully complete the programme.

Schedule

Our Course timings commences at 08:30 and concludes at 14:00, followed by lunch on a daily basis.

Hotel Accommodation

EuroMaTech has negotiated special rates for a limited number of rooms in the hotel. Early registration will help to secure a room at the reduced rate.

Registration & Payment

Please complete the registration form on this page & return it to us indicating your preferred mode of payment. For Further Information, Contact Your Nearest EuroMaTech Office.

Cancellation Policy

Request for seminar cancellation must be made in writing & received at EuroMaTech three weeks prior to the seminar date. A U.S.\$250/- processing fee will be charged per delegate for each cancellation. Thereafter, we regret that we are unable to refund any fees due, although in such cases we would be happy to welcome a colleague who would substitute for you.

Disclaimer

EuroMaTech reserves the right to alter the content, location of the Seminar, or the identity of the speakers in case of events beyond our control.

***VAT Announcement:** The Government of UAE have introduced Value Added Tax (VAT) on goods and services from 01-January-2018. In compliance with the legislation issued by the UAE Government, we will be applying a 5% VAT on the fees for all our programs and services offered from January 2018 as applicable and stipulated in the FTA circulars.

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