



*Training Course:  
Design Considerations for Marine Terminals*

*14 - 18 October 2024  
Cape Town (South Africa)  
DoubleTree by Hilton Cape Town - Upper Eastside*

## Training Course: Design Considerations for Marine Terminals

Training Course code: MM234840 From: 14 - 18 October 2024 Venue: Cape Town (South Africa) - DoubleTree by Hilton Cape Town - Upper Eastside Training Course Fees: 7140 € Euro

### INTRODUCTION

If your company operates offshore assets and in particular Offshore Marine Terminals, Fixed Platform infrastructures with subsea pipelines, Floating Production Storage & Offloading FPSOs, and/or is entering into FSRU / FLNG assets with LNG Gas carriers and/or Oil tankers berthing at single buoy mooring terminals, then this Global Horizon Design Considerations for Marine Terminals training program is for you.

This interactive, applications-driven 5-day Global Horizon training program is focused on the key design, operability, and life cycle asset integrity management considerations for constructing and operating an Offshore Asset such as a Marine Oil or Gas Terminal. This Global Horizon Design Considerations for Marine Terminals training program additionally addresses aging asset infrastructure and life extension modeling with safety and regulatory guidance.

This Global Horizon training program will highlight:

- Key design & construction guidelines for building & operating an offshore marine asset
- How to manage aging infrastructure, structural integrity monitoring, asset insurance, marine warranty surveillance Life cycle risk management
- Use of latest technologies in real-time data management, condition performance monitoring technologies
- Focusing on design life cycle management, maintaining a stable asset risk profile with good reliability, production availability, and Uptime performance as per ISO 20815 criteria
- Managing Asset OPEX Budgets, Knowledge Management tools, and skills set to transfer to a multi-disciplined, competent workforce

### TRAINING OBJECTIVES

By the end of this Global Horizon training program, participants will be able to:

- Gain a better understanding and appreciation of the various International Asset Regulatory Guidelines and manage variances in environmental conditions, codes, and standards
- Interpret meaningfully and critically, project and asset information to assist in each of the key stages
- Obtain a practical approach to understanding the requirements to obtain a DNV and/or other Independent 3rd Party Design Verification Certificate such as those issued by ABS and or Bureau Veritas or Lloyds Register Integrity Management
- Learn the regulatory requirements and integrated competence matrices as stipulated by SIGTTO for LNG-LPG assets and risk management

- Plan, Act and Do things in a timely manner to maintain the integrity of your assets in fitness for purpose, operating condition

## TRAINING METHODOLOGY

Participants in this Global Horizon Design Considerations for Marine Terminals training program shall receive thorough training on the subjects covered by the outline with the instructor utilizing a variety of proven adult learning teaching and facilitation techniques.

Training methodology includes:

- A variety of proven adult learning techniques shall be used to ensure maximum understanding, comprehension, and retention of the information presented
- The daily workshops will be highly interactive and participative. This involves regular discussion of applications with the seminar instructor, as well as hands-on exposure to the latest techniques using some supportive project and operational site video presentations

Delegates are strongly encouraged to bring operational experiences gained from their own work into the training seminar workshops. This adds greater relevancy to the content. Emphasis is also placed on the periodic changes in International regulations and the effectiveness of the "management of change" procedures.

## TARGET AUDIENCE

This Global Horizon training program is suitable for a wide range of professionals but will greatly benefit:

- Asset Engineers, Marine Engineers
- Marine Operations & Field Personnel
- Infrastructure Managers
- Professionals in the marine facility, management support roles
- Marine Operations Superintendents
- Those who seek to derive a greater understanding of Design through Life Cycle Asset Management of Offshore Marine Terminals
- HSE Personnel Subject Matter Experts SME for operational aspects of "ship to ship" transfer of LNG, in support of both European EE and worldwide terminal development projects, market access, and commercial efforts

## Course Outline

DAY 1

## Design and Construction Codes for Marine Terminals - Offshore Assets

- Updates on various International Codes, Standards, and Regulations will be presented
- Recommended best practices will be tabled such that you can introduce updates and or possibly identify new management performance Key Performance Indicators KPIs that can be used on your assets, regionally specific criteria, including considerations for asset life cycle extensions
- Design Layouts, Plant Optimization
- Stage-Gate Approval Process and reaching a Design Freeze aligned with Project Financial Investment Decision Stage Gates, aging asset life extension regimes
- Use of Smart Marine Plant Design to life cycle documentation process beneficial for project handover to asset operations teams

## DAY 2

### Asset Management Responsibilities and Life Cycle Phased Inspection & Planned Preventative Maintenance Regimes

- Various Workshop Sessions across Design Life Cycle Integrity Criteria
- Structural Integrity
- Inspection Regimes
- Capturing Key Technical, Operating Performance Standards, Safety Critical Elements, Integrity Levels
- Lean Design Life-Cycle Concept
- Process System Safety Improvements

## DAY 3

### Lessons Learnt and The Knowledge Management Process

- Mitigating Risks from Ageing Structural Integrity
- Use of Pipeline Leak Detection Devices
- Emergency Pipeline Repair Systems EPRS Strategies and Availability of Spare Parts
- Marine Warranty Surveillance MWS Inspections and Vessel Classification Reviews
- Hook Up and Commissioning Issues
- Incidents and/or Accidents from Heavy Lifts
- Planning for Asset Decommissioning

## DAY 4

### Life Cycle Certification Updates, Periodic Life Cycle Asset Risk Based Inspection RBI, and Life Extension Studies in Ageing Infrastructure

- Demonstration by Worked Examples and Use of Dynamic Asset Management Data Bases with condition Performance Monitoring Support Tools
- How to Develop Asset Risk Models for Repairs and Necessary Structural Upgrades
- Considerations for Phased De-commissioning Activities
- Environmental Regulatory Reporting across Your Various Asset Sites
- Storage and Retention of Key Documents, Electronic Filing and hard Copies

## DAY 5

### Offshore Installation Management

- Safety Leadership Skills and Key Asset Performance Measures
- Regulatory Reporting of Safety Critical Elements SCE and Performance Standards PS into SAP and other Enterprise Business Management Systems
- Understanding of How to Deliver Robust Design, Construction and Asset Life Cycle Management Operating Expenditure OPEX Budgets
- Design Construction Regulations, Computerised Maintenance Management Systems CMMS appropriate ISO Codes and Standards Refresher
- Emergency Management and Major Accident Prevention Hazard Analysis Practices and Wider Operating Parameter Considerations

## Registration form on the Training Course: Design Considerations for Marine Terminals

**Training Course code:** MM234840 **From:** 14 - 18 October 2024 **Venue:** Cape Town (South Africa) - DoubleTree by Hilton Cape Town - Upper Eastside **Training Course Fees:** 7140 € Euro

Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....  
 Position: .....  
 Telephone / Mobile: .....  
 Personal E-Mail: .....  
 Official E-Mail: .....

### Company Information

Company Name: .....  
 Address: .....  
 City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....  
 Position: .....  
 Telephone / Mobile: .....  
 Personal E-Mail: .....  
 Official E-Mail: .....

### Payment Method

- Please find enclosed a cheque made payable to Global Horizon
- Please invoice me
- Please invoice my company

### Easy Ways To Register

Telephone:  
+201095004484 to  
provisionally reserve your  
place.

Fax your completed  
registration  
form to: +20233379764

E-mail to us :  
info@gh4t.com  
or training@gh4t.com

Complete & return the  
booking form with cheque  
to: Global Horizon  
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