Layout Importance for Marine Terminals and Oil & Gas Marine Operating Assets

Optimizing Marine Terminal Layouts for Efficiency

Introduction

This Course N Carry Layout Importance for Marine Terminals and Oil & Gas Marine Operating Assets training seminar is for you if your company operates offshore assets, specifically offshore marine terminals, fixed platform infrastructures with subsea pipelines, Floating Production, Storage and Offloading (FPSO) and/or is entering into FSRU / FLNG assets with LNG Gas carriers and/or oil tankers berthing at single buoy mooring terminals.

The major design, operability, and life cycle asset integrity management issues for building and operating an offshore asset, such as a marine oil or gas terminal, are the subject of this five-day interactive, applications-driven Course N Carry Oil & Gas Technology training seminar. In addition, ageing asset infrastructure, life extension modelling with safety, and regulatory guidelines are covered in this training webinar on Course N Carry Layout Importance for Marine Terminals and Oil & Gas Marine Operating Assets.

The main points of this Course N Carry training seminar are:

- Important construction and design specifications for creating and managing an offshore maritime asset
- Managing ageing infrastructure, asset insurance, structural integrity monitoring, and maritime warranty surveillance Risk management throughout the life cycle
- Utilising state-of-the-art technologies for condition performance monitoring and real-time data management
- Concentrating on design life cycle management, upholding ISO 20815 standards for production availability, uptime performance, and a steady asset risk profile with good reliability
- Knowledge management tools, asset OPEX budget management, and skill transfer to a multidisciplinary, capable workforce

Objectives

Following this Course N Carry training programme, attendees will be qualified to:

- Acquire a deeper comprehension and admiration for the diverse International Asset Regulation Guidelines and effectively handle variations in environmental circumstances, regulations, and norms.
- Analyse project and asset data critically and meaningfully to support each of the important phases.
- Learn the practical steps involved in obtaining a DNV and/or other Independent Third Party Design Verification Certificate, such as those provided by Lloyds Register Integrity Management, Bureau Veritas, ABS, or other similar organisations.
- Discover the SIGTTO's integrated competence matrices and regulatory requirements for risk management and LNG/LPG assets.
- Make plans, take action, and complete tasks on time to keep your assets intact and in operational, fit-for-purpose condition.

Training Methodology

The instructor of this Course N Carry Layout Importance for Marine Terminals and Oil & Gas Marine Operating Assets training seminar will use a range of tried-and-true adult learning teaching and facilitation techniques to provide participants with thorough training on the topics covered in the outline. The training methodology consists of:

- To achieve the highest level of knowledge, retention, and understanding of the material taught, a range of tried-and-true adult learning strategies will be employed.
- There will be a lot of interaction and participation in the daily workshops. This entails routine application discussions with the seminar lecturer in addition to practical exposure to the newest methods through the use of some helpful project and operational site video presentations.

It is highly recommended that attendees of training seminars contribute operational experiences from their own jobs to the sessions. This makes the content more pertinent. Also emphasised are the regular modifications to international regulations and the efficiency of the "management of change" protocols.

Organizational impacts

Teaching the principles of Interactive Economics to your employees can help drive organizational growth and seamless operations:

- A short course that equips employees with skills for the real world
- Employees receive enhanced and economically driven decision-making skills
- Helps create better marketing strategies for higher sales
- Provides a competitive advantage by helping make calculated risks

Personal Imapct

Enrolling in this course can benefit you in the following ways:

- Gain a deep understanding of the relation between human behavior and finances
- Learn modern techniques to estimate market demand and prediction
- Attain leadership, adaptability, and decision-making skills
- Analyze and understand successful market strategies

Who should attend?

Professionals of all stripes can benefit from this Course N Carry training programme, but the following will be very helpful:

- Marine engineers and asset engineers
- Operations in the Marines and Field Workers
- Professionals working in management support and maritime facilities
- Superintendents of Marine Operations
- Individuals who aim to get enhanced comprehension of Offshore Marine Terminal Design and Life Cycle Asset Management
- Subject Matter Experts (SME) in HSE Personnel for the operational aspects of LNG transfers from "ship to ship," supporting terminal development projects in Europe and around the world, market access, and commercial endeavours

Course Outline

Day 1

Offshore Assets: Design and Construction Codes for Marine Terminals

- There will be updates on a number of international codes, standards, and regulations.
- We'll lay out recommended best practices so you can implement updates and/or find new management performance KPIs (Key Performance Indicators) for your assets based on locally specific standards, taking asset life cycle extensions into account.
- Layout Design and Plant Optimisation
- Aging asset life extension regimes, achieving a Design Freeze in line with Project Financial Investment Decision Stage Gates, and the Stage Gate Approval Process
- Utilising Smart Marine Plant Design in the life cycle documentation process helps asset operations teams transfer over projects.

Day 2

Asset Management Duties, Planned Preventative Maintenance Programmes, and Life Cycle Phased Inspections

- Numerous workshops addressing the Design Life Cycle Integrity Criteria
- Structural Integrity

- Methods of Inspection
- Important Technical, Safety Critical Components, Integrity Levels, and Operational Performance Standards Recorded
- The Lean Design Life Cycle Concept
- Safety Improvements for Process Systems

Day 3

Knowledge Management Process and Takeaways

- Reducing the Dangers of Ageing Structural Integrity
- Using Leak Detection Equipment for Pipelines
- Strategies for Emergency Pipeline Repair Systems (EPRS) and the Availability of Replacement Parts
- Reviews of vessel classification and inspections for Marine Warranty Surveillance (MWS)
- Problems with Commissioning and Hook Up
- Heavy Lift Incidents and/or Accidents
- Making Plans for Asset Dismantling

Day 4

Updates on Life Cycle Certification, Risk-Based Inspection (RBI) for Periodic Life Cycle Assets, and Life Extension Research in Ageing Infrastructure

- Worked examples and the use of dynamic asset management databases with conditions are used to demonstrate Supporting Tools for Performance Monitoring
- How to Create Asset Risk Models for Required Structural Upgrades and Repairs
- A Look Into Phased Decommissioning Projects
- Reporting on Environmental Regulations at All of Your Asset Locations
- Important Documents: Storage and Retention, Electronic Filing, and Having Copies

Day 5

Management of Offshore Installations

- Key Performance Indicators and Safety Leadership Competencies
- Regulatory Reporting into SAP and Other Enterprise Business Management Systems for Safety Critical Elements (SCE) and Performance Standards (PS)
- Knowing How to Deliver Sturdy Operating Expenditure (OPEX) Budgets for Design, Construction, and Asset Life Cycle Management
- The relevant ISO codes and standards, computerised maintenance management systems (CMMS), and design and construction regulations Reviving

- Hazard analysis procedures, emergency management, major accident prevention, and broader operating parameter considerations

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