Asset Integrity Management for Purpose-Built FPSO’s and Subsea System Facilities

26 - 30 Jul 2020, Dubai
Introduction

This interactive, applications-driven 5-day GLOMACS Asset Integrity Management for Purpose-Built FPSO’s and Subsea System Facilities training course offers a professional approach providing access to support tools in Asset Integrity management decision making. It will show the principles of asset integrity management for subsea systems, risers and FPSOs and it will show how the use of real-time condition based monitoring can support strategic initiatives and to direct subsea & marine operational decision making in a more proactive and efficient manner.

In today’s globally challenged Oil & Gas Upstream Business Sector to reduce Operating Expenditure (OPEX) costs this course will add value to your own development as an operations or asset maintenance engineer and support your Asset Management goals and objectives over the Life of Field Operations.

This GLOMACS training course is aimed at addressing the following criteria:

- Providing engineers, operations and maintenance personnel and asset-operations managers with ability to draw down the critical information on any reported anomalies, inspection or planned maintenance, repair activities across your assets.

Obviously, operations teams have busy day-to-day lives. So, this course will enable you to plan your work load and teach your teams on how to improve the production assurance efficiencies of your marine assets.

This GLOMACS training course will feature:

- Guidelines of asset integrity management
- Subsea and risk assessment framework
- Deepwater Riser and Subsea Integrity Management Strategy
- How to develop more robust asset integrity maintenance and repair philosophy
- Learning about asset management interpretation
- AIM for FPSOs and offshore floating facilities
- Riser and subsea asset field life extension case studies
- Risk based inspection for FPSOs and subsea facilities
- This course will provide you access to latest updates in Oil & Gas Producers Guidelines for Managing Risks to Offshore Operating FPSO’s and new build FPSOs and their associated subsea production infrastructures

Objectives

By the end of this GLOMACS training course, participants will be able to:

- Improve the utilisation of these various tools and have the awareness, and a better understanding of how to make improved quality and timely decisions for your operational and asset management roles
- Apply and improve Asset Integrity planning, skill sets over a cross-section of subsea or marine asset inspections, periodic preventative planned maintenance routines or subsea intervention operations

- Learn about new subsea inspection, maintenance and repair techniques
- Understand the risk based inspection management systems for subsea and FPSOs

Intended Skill Outcomes:

- IDENTIFY how to improve the operability and integrity of subsea developments- marine assets over the life of field operations
- LEARN how to improve your daily planning on asset integrity monitoring and reporting requirements
- GET BETTER UNDERSTANDING of the guidelines to asset integrity management and asset integrity procedures and program implementation
- UNDERSTAND the inspection, maintenance and repair techniques of subsea systems, subsea pipelines
- UNDERSTAND the regulations of FPSO operation and maintenance
- LEARN about riser and mooring lines Management based on Real-Time Integrity Monitoring
- RECOGNIZE the requirements, the International Standards of subsea systems and marine assets
- REVIEW a number of examples of asset integrity failures that could have been avoided by more proactive asset management

Training Methodology

This GLOMACS Asset Integrity Management for Purpose-Built FPSO’s and Subsea System Facilities training course will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented.

- PowerPoint presentations, operational video’s, training manuals with practical user examples. Competency assurance tests, continuous professional development measures
- The daily workshops will be highly interactive and participative. This involves regular discussion of applications as well as hands-on exposure to techniques using examples from the offshore work place environment. Delegates are strongly encouraged to bring and share their own experiences, lessons learnt from the work domain.

Who Should Attend?

This GLOMACS training course is suitable to a wide range of professionals but will greatly benefit:

- New Graduates and Professionals in both operations and onshore to offshore asset management support roles
- Reliability or Operations-Maintenance Engineers, Field Supervisors
- Marine Operations
DAY 1

Introduction to Subsea System Operation and FPSO Production Asset

• Overview of Subsea Engineering
• Subsea Field Development
• Subsea Production Systems
• Subsea Structures and Equipment
• Subsea Field Development Overview
• Introduction to FPSO Operation and Maintenance
• Regulations and Codes
• Environmental Influences Affecting FPSO Operations
• FPSO Mooring, Turret and Swivel Operations
• Subsea Umbilicals, Risers + Flowlines (SURF) and Subsea Facility Interfaces
• Oil or Gas Transfer (Offloading)

DAY 2

Guidelines for Asset Integrity Management

• Asset Integrity Management (AIM)
• Management Responsibility
• AIM Life Cycle
• Failure Modes and Mechanisms
• Asset Selection and Criticality Determination
• Inspection, Testing and Preventive Maintenance
• Established Approaches for Developing Test and Inspection Plans
• Asset Integrity Procedures
• Equipment Deficiency Management
• AIM Program Implementation

DAY 3

Subsea Asset Integrity and Risk Assessment

• Subsea Asset Integrity Framework for Project Execution Phase
• Risk Assessment
• Maintaining a Stable Integrity Performance for Your Assets
• Project Risk Management
• Subsea Equipment RBI Methodology

DAY 4

Operability, Subsea Inspections, Maintenance and Repair Asset Integrity

• Remote Operated Vehicles (ROV) Intervention and Interface
• Inspection and Maintenance of Subsea Systems
• Subsea Pipeline Repair Methods
• Autonomous Underwater Vehicle (AUV)
• Acoustic Sand Monitors
• Monitoring of Corrosion and Erosion Damage of Pipelines
• RISER AND SUBSEA ASSET FIELD LIFE EXTENSION Case Studies
• Interpretation of Subsea Inspection Data

DAY 5

FPSO Asset Integrity

• AIM for Offshore Floating Facilities
• PFPSO Degradation Mechanisms Examples
• Risk based Inspection for FPSOs
• Spectral Fatigue for FPSO Conversion
• Structural Longevity of FPSO Hulls
• Inspection Management for FPSOs

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REGISTRATION DETAILS

LAST NAME:________________________________________
FIRST NAME:_______________________________________
DESIGNATION:_____________________________________
COMPANY: ________________________________________
ADDRESS: ________________________________________
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AUTHORISATION DETAILS

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PAYMENT DETAILS

☐ Please invoice my company
☐ Cheque payable to GLOMACS
☐ Please invoice me

CERTIFICATION

Successful participants will receive GLOMACS’ Certificate of Completion

4 WAYS TO REGISTER

Tel:  +971 (04) 425 0700
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TERMS AND CONDITIONS

• Fees – Each fee is inclusive of Documentation, Lunch and refreshments served during the entire seminar.
• Mode of Payment – The delegate has the option to pay the course fee directly or request to send an invoice to his/her company/sponsor. Credit card and cheque payments are both acceptable.
• Cancellation / Substitution – Request for seminar cancellation must be made in writing & received three (3) weeks prior to the seminar date. A US$ 250.00 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.
• Hotel Accommodation – is not included in the course fee. A reduced corporate rate and a limited number of rooms may be available for attendees wishing to stay at the hotel venue. Requests for hotel reservations should be made at least three (3) weeks prior to the commencement of the seminar. All hotel accommodation is strictly subject to availability and terms and conditions imposed by the hotel will apply.
• Attendance Certificate – a certificate of attendance will only be awarded to those delegates who successfully completed/attended the entire seminar including the awarding of applicable Continuing Professional Education Units/Hours.
• Force Majeure – any circumstances beyond the control of the Company may necessitate postponement, change of seminar venue or substitution of assigned Instructor. The Company reserves the right to exercise this clause and implement such amendments.
• Fair Access / Equal Opportunities – In the provision of its services as a world-class Training Provider, the Company is committed to provide fair access/equal opportunities throughout the delivery of its courses and assessment leading to the completion of training seminars, or 3rd party qualifications/certifications.

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