

Regional Center for Consulting & Training



5 Days External Training Course :
Subsea & Marine Design, Operation and Maintenance

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Regional Center for Training & Consulting Invite You To Participate With Us
Throw Our Special Training Course As Under Below Details:

Name	Subsea & Marine Design, Operation and Maintenance			
Period	Start	End	Location	Fees
5 Days	15/01/2024	19/01/2024	Traders Hotel, Kuala Lumpur, Malaysia	1550 KD
	19/02/2024	23/02/2024		
	28/04/2024	02/05/2024		

INTRODUCTION

This interactive, applications-driven 5-day Subsea & Marine Design, Operation and Maintenance training seminar offers a professional approach providing access to decision making support tools in asset management-operations decision making. It will show how the use of big data analytics can support strategic initiatives; to inform on asset management data information; and to direct subsea & marine operational decision making. This training course is aimed at addressing a global industry “age gap” by providing a link to a knowledge management based pool of highly experienced professionals and leaders across the Offshore & Marine - Subsea Operational and Technology sectors. The industry is going through a period of a combination of tightening international asset maintenance standards, and the cyclic challenges presented by a global industry where oil and gas price volatility is pushing down operating entities and contractor-service providers profit margins, and having to deal with issues associated with ageing assets are forcing oil and gas operators to assess their existing strategies and develop something more robust such that one maximises the Return-On-Investment (ROI) budget levels. Something that inevitable falls out of these periodic downturns is experienced personnel leave the industry, thus providing a significant gap in the available skills, and management leadership. Alongside this, asset integrity has become far wider and more diverse; with modern day asset integrity managers becoming responsible for a wider remit of roles whilst still being expected to fulfill their traditional activities. So this Subsea & Marine Design, Operation and Maintenance training course will better prepare you as an aspiring subsea or marine operations engineer for both the interesting and challenging journey and career of becoming the Lead Operations owner operator engineer or possibly a Asset Manager; These roles will involve more subsea infrastructure installations by way of long subsea tie-backs to shore or subsea – marine offshore facilities involving a Floating Production Storage and Offloading (FPSO) or possibly a Floating Liquefied Natural Gas (FLNG) or Floating Re-Gasification Storage Unit (FSRU) facilities in the



development and extraction of numerous stranded Oil & Gas gas fields by re-deployable mobile assets. This training course will feature:

- Discussions on the latest subsea inspection technologies and operational maintenance recommended best practices.
- Developing your knowledge of subsea system engineering.
- Covering asset and integration management.
- Sessions on building your Operational Knowledge and Team Leadership skill sets.
- Providing a wide overview of how the Offshore Subsea + Marine Technology sector is evolving and still developing technology that can save on both Capital Expenditure (CAPEX) + Operating Expenditure (OPEX) costs.
- Interfaces Onboard FPSO or FLNG Facilities.
- Operation and maintenance of FPSO and FLNG.

OBJECTIVES

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

- Have the tools and awareness to make quality and timely decisions.
- Explain the scope and structure of what it takes to become an Operations or Asset Manager.
- Improve your knowledge and understanding across subsea + marine Life of Field operations management recommended best practices, regulatory reporting regimes.
- Improve your knowledge on topside facilities such as FPSO and FLNG.

DETAILS & OUTLINE

DAY 1: Setting the Scene in Operational and Life Cycle Asset Management

- Introduction: The Life of a Subsea or Marine Operations Engineer, Supervisor or Asset Manager
- Overview of Subsea Engineering
- Subsea Field Development
- Subsea Production Systems
- Subsea Structures and Equipment
- Subsea Field Development Overview
- Project Execution and Interfaces
- Managing Teams of Multi-disciplined Personnel
- Project Team Roles and Responsibilities
- Subsea Asset Integrity Framework for Project Execution



DAY 2: Subsea Installation and Operations from Commissioning a Subsea Well System to Developing Operational Subsea Inspection and Maintenance Budgets for Offshore Assets

- Subsea Surveying
- Subsea Soil Investigation
- Subsea Foundation
- Subsea Pipeline Installation
- Typical Installation Vessels
- Vessel Requirements and Selection
- Subsea Cost Estimation (*cost methodologies, equipment costs, installation costs*)
- Case Study: Subsea System CAPEX Estimation
- Subsea Simulator Facility
- Intelligent Wells with Subsea Data Communication Hubs and Programmed Autonomous Underwater Vehicle (AUV)

DAY 3: Subsea Architecture and Topside Surface and Subsea System Engineering

- Interfaces Onboard FPSO or FLNG Facility
- FPSO and FLNG Topside Facilities and Layout
- Flow Assurance
- System Design and Operability
- Subsea Power Supply
- Riser / Controls Umbilical
- Subsea Control
- Subsea Manifolds
- Pipeline Ends and In-Line
- Structures
- Subsea Connections and Jumpers
- Subsea Wellheads and Trees



DAY 4: Operability, Planning Period Subsea, Marine Facility Inspections, Maintenance and Repair Asset Integrity

- Risk Assessment
- Maintaining a Stable Integrity Performance for Your Assets – *Managing the Risks over Life of Field*
- Environmental Impact Assessment
- Project Risk Management
- Subsea Equipment RBI Methodology
- Pipeline RBI
- Remote Operated Vehicles (ROV) Intervention and Interface
- Inspection and Maintenance of Subsea Systems
- Subsea Pipeline Repair Methods
- Risk and Reliability Analysis
- Emergency Shutdown

DAY 5: Offshore Operations Onboard a FPSO and or FLNG Production Asset

- Introduction to FPSO –FLNG Operation and Maintenance
- FPSO and FLNG Inspection and Maintenance
- Regulations and Codes
- Environmental Influences Affecting FPSO – FLNG Operations
- FPSO and or FLNG Mooring, Turret and Swivel Operations
- Subsea Umbilicals, Risers + Flowlines (SURF) and Subsea Facility Interfaces
- Oil or Gas Transfer (Offloading) - *Examples in both FPSO + LNG Carrier Tandem Mooring to FLNG Assets, using Cryogenic Hoses*
- Summary of Key Learning and How these fit into your continuous professional development training and competence measurement profile, Leadership + Management Skills Retention

With Best Regards From Regional Training & Consulting Center



Subsea & Marine Design, Operation and Maintenance
Traders Hotel, Kuala Lumpur, Malaysia
19/02/2024 To 23/02/2024

Day	Date	Topics of Training Day
Training Day Usually (Starting From 9:00 AM To 2:30 PM) First Break From 11:00 AM To 11:30 AM & Second Break From 1:00 PM To 1.15 PM End Training Day At 2:30 PM		
Monday	19/02/2024	<p><u>Setting the Scene in Operational and Life Cycle Asset Management:</u></p> <ul style="list-style-type: none"> - Introduction: The Life of a Subsea or Marine Operations Engineer, Supervisor or Asset Manager. - Overview of Subsea Engineering. - Subsea Field Development. - Subsea Production Systems. - Subsea Structures and Equipment. - Subsea Field Development Overview. - Project Execution and Interfaces. - Managing Teams of Multi-disciplined Personnel. - Project Team Roles and Responsibilities. - Subsea Asset Integrity Framework for Project Execution.
Tuesday	20/02/2024	<p><u>Subsea Installation and Operations from Commissioning a Subsea Well System to Developing Operational Subsea Inspection and Maintenance Budgets for Offshore Assets:</u></p> <ul style="list-style-type: none"> - Subsea Surveying. - Subsea Soil Investigation. - Subsea Foundation. - Subsea Pipeline Installation. - Typical Installation Vessels. - Vessel Requirements and Selection. - Subsea Cost Estimation (cost methodologies, equipment costs, installation costs). - Case Study: Subsea System CAPEX Estimation. - Subsea Simulator Facility. - Intelligent Wells with Subsea Data Communication Hubs and Programmed Autonomous Underwater Vehicle (AUV).



<p>Wednesday</p>	<p>21/02/2024</p>	<p><u>Subsea Architecture and Topside Surface and Subsea System Engineering</u></p> <ul style="list-style-type: none"> - Interfaces Onboard FPSO or FLNG Facility. - FPSO and FLNG Topside Facilities and Layout. - Flow Assurance. - System Design and Operability. - Subsea Power Supply. - Riser / Controls Umbilical. - Subsea Control. - Subsea Manifolds. - Pipeline Ends and In-Line. - Structures. - Subsea Connections and Jumpers. - Subsea Wellheads and Trees.
<p>Thuesday</p>	<p>22/02/2024</p>	<p><u>Operability, Planning Period Subsea, Marine Facility Inspections, Maintenance and Repair Asset Integrity:</u></p> <ul style="list-style-type: none"> - Risk Assessment. - Maintaining a Stable Integrity Performance for Your Assets – Managing the Risks over Life of Field. - Environmental Impact Assessment. - Project Risk Management. - Subsea Equipment RBI Methodology. - Pipeline RBI. - Remote Operated Vehicles (ROV) Intervention and Interface. - Inspection and Maintenance of Subsea Systems. - Subsea Pipeline Repair Methods. - Risk and Reliability Analysis. - Emergency Shutdown.
<p>Friday</p>	<p>23/02/2024</p>	<p><u>Offshore Operations Onboard a FPSO and or FLNG Production Asset:</u></p> <ul style="list-style-type: none"> - Introduction to FPSO –FLNG Operation and Maintenance. - FPSO and FLNG Inspection and Maintenance. - Regulations and Codes. - Environmental Influences Affecting FPSO – FLNG Operations. - FPSO and or FLNG Mooring, Turret and Swivel Operations. - Subsea Umbilicals, Risers + Flowlines (SURF) and Subsea Facility Interfaces. - Oil or Gas Transfer (Offloading) - Examples in both FPSO + LNG Carrier Tandem Mooring to FLNG Assets, using Cryogenic Hoses. - Summary of Key Learning and How these fit into your continuous professional development training and competence measurement profile, Leadership + Management Skills Retention.