FPSO/FLNG E&I Design Installation and Operation

22 - 26 Dec 2019, Dubai
20 - 24 Dec 2020, Dubai
INTRODUCTION

This 5-day GLOMACS training seminar provides a complete and comprehensive technical overview of electrical systems, instrumentation, process control and safety systems on FPSOs and FLNGs. This GLOMACS training seminar covers measurement principles and provides a whole spectrum of subjects ranging from basic E&I engineering through to advanced practice in hazardous areas and data communications.

This GLOMACS training seminar highlights the safety aspects in design, installation and operation of equipment, and will arm the participants with a wealth of knowledge to help them advance their project.

This GLOMACS training seminar will feature:
- Electrical Safety
- Power Generation and Distribution
- Electrical Equipment in Hazardous Areas
- Measurement and Control
- Systems Safety Instrumentation
- Documentation

OBJECTIVES

By the end of this GLOMACS training seminar, participants will be able to:
- Identify the safety risks involved in power systems
- Understand the principles of protecting electrical equipment
- Selecting and integrating power distribution systems
- Interpret power demand and power users
- Defining the key requirements for instrument specifications

TRAINING METHODOLOGY

This GLOMACS training seminar will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. The daily workshops will be highly interactive and participative. This involves regular discussion between both delegates and training seminar director. This GLOMACS training seminar will provide the participants with an in-depth knowledge through detailed information, real-life case studies, photos and video animation.

ORGANISATIONAL IMPACT

For the E&I design and installation for FPSOs and FLNGs, firm knowledge of the fundamental principles of the various systems is essential. To be capable of handling the numerous project challenges and stay within budget and schedule, it is important to have educated, knowledgeable and well-trained personnel that:
- Understand the safety risks involved in power systems
- Understand power demand and power users
- Is aware of the key requirements for instrument specifications
- Appreciate the interdisciplinary nature and teamwork required for successful projects
- Understand the rules, regulations and industry standards
- Adopt the industry best practices and recommendations

In sending delegates to this training seminar, the organisation will gain the following benefits:
- Develop a technically strong team
- Increase efficiency
- Realise higher performance at lower costs within compliance
- Control the project budget and prevent overruns

PERSONAL IMPACT

Understanding of the key drivers for the design and installation of electrical systems, instrumentation, process control and safety systems on FPSOs and FLNGs will provide the participants with the tools necessary to find answers and solutions to make appropriate decisions to progress in present and future projects.

This GLOMACS training seminar will provide multidisciplinary understanding of:
- The Safety Risks involved in Power Systems
- The Principles of Protecting Electrical Equipment
- How to analyze the power system in case of any possible problems and capability of finding the issues and solving them (troubleshooting)?
- The Impact of Your Role in the Project
- The Importance of Interdisciplinary Nature and Teamwork required to have Successful Projects
- How and Why things could go wrong?

WHO SHOULD ATTEND?

This GLOMACS training seminar is suitable to a wide range of professionals but will greatly benefit:
- Designers
- Managers and Operators
- Technical Staff
- Project Engineers
- Engineering Discipline Leads
- Engineering Specialists
- Operating Staff
# Seminar Outline

## DAY 1

**Introduction to Electrical System Design**
- Electrical System Design Basis
- Standards
- Electrical Safety
- Design Criteria

## DAY 2

**Power Generation and Distribution**
- Prime Movers
- High and Low Voltage Generators
- Generator Protection
- Photovoltaic Plants
- Plant Heat Rate Calculation – efficiency
- Switchboards
- Protection Devices
- Transformers
- Cables
- UPSs and Batteries

## DAY 3

**Power Distribution, Safety and Protection**
- Variable Speed Drives
- Motors
- Safety and Protection
- Earthing
- Harmonics
- Electrical Equipment in Hazardous Areas

## DAY 4

**Instrumentation and Control I**
- Introduction to Instrumentation
- Control System Design
- Field Instruments
- HART Protocol

## DAY 5

**Instrumentation and Control II**
- Communication and Networking Systems
- Safety Instrumentation
- Automation
- Installation Requirements
- Subsea Instrumentation and Control System
- Valves
- Documentation (instrument loop diagrams, cable schedule, termination details, instrument layouts, logic drawings, construction installation details, wiring diagrams, P&IDs, etc.)

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REGISTRATION DETAILS

LAST NAME: __________________________________________
FIRST NAME: _________________________________________
DESIGNATION: _______________________________________
COMPANY: ___________________________________________
ADDRESS: ___________________________________________

CITY: _______________________________________________
COUNTRY: ___________________________________________
TELEPHONE: _________________________________________
MOBILE: _____________________________________________
FAX: _______________________________________________
EMAIL: ______________________________________________

AUTHORITY DETAILS

AUTHORIZED BY:_______________________________________

DESIGNATION:_______________________________________
COMPANY: ___________________________________________
ADDRESS: ___________________________________________

CITY: _______________________________________________
COUNTRY: ___________________________________________
TELEPHONE: _________________________________________
MOBILE: _____________________________________________
FAX: _______________________________________________
EMAIL: ______________________________________________

PAYMENT DETAILS

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

CERTIFICATION

Successful participants will receive GLOMACS’ Certificate of Completion

FPSO/FLNG E&I Design
Installation and Operation

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<thead>
<tr>
<th>Code</th>
<th>Date</th>
<th>Venue</th>
<th>Fees</th>
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<tr>
<td>OG043</td>
<td>22 - 26 Dec 2019</td>
<td>Dubai - UAE</td>
<td>$4,950</td>
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4 WAYS TO REGISTER

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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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