



Masters Degree Ships & Offshore Units Repair Technology

Webinars

1 Big data and maintenance 4.0 in the maritime industry



Speaker: Professor Jose Antonio Orosa García (University of A Coruña)

Objectives:

1. To identify the main variables related to failures
2. To define probabilistic models of each type of failure
3. To develop a maintenance plan
4. Future applications of big data and maintenance 4.0

21st
September
17-19.00 h.
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2 Identify the right financing program. An overview of the European and Spanish funding and financing schemes oriented to shipbuilding and retrofitting



Speaker: Sergio Velásquez (Comet Technology)

Objectives:

1. Provide an overview of the history of the funding mechanisms and existing funding and financing bodies at Spanish and European levels, their main goals, and the schemes produced to achieve such goals
2. Be able to identify the funding or financing scheme at Spanish and European levels that better fits a specific project, according to maturity of the technology used (TRL), approach (research vs project), geographical scope, target (industry, SMEs, administration), etc
3. Know how to identify ongoing and, especially, future calls
4. Learn the basics on the main points to take into account when preparing a submission to each specific call

22nd
September
17-19.00 h.
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3 Ship's surveys. General aspects in new shipbuilding. Classification societies



Speaker: Javier González Reina (Classification Society surveyor)

Objectives:

1. To understand the general technical and legal roles of Classification Societies (CS)
2. General view of the kind of Surveys/Audits/Inspections carried out by Classification CS on New Shipbuilding
3. To obtain a general understanding of the relation between CS, Flags and Administrations
4. Understanding the verification process of compliance with International Rules and Regulations during New Shipbuilding

24th
September
17-19.00 h.
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4 Ship's surveys. General aspects in existing ships, repairs and refits. Classification societies



Speaker: Javier González Reina (Classification Society surveyor)

Objectives:

1. General view of the kind of Surveys/Audits/Inspections carried out by Classification CS Existing Ships
2. Understanding the specific CS actuations in case of accident/failure
3. Overview of the applicable Rules for temporary/final Steel repairs
4. Practical application of IACS recommendations on Existing Ships steel works repairs
5. Understanding the most convenient kind of existing NDTs applicable to each kind of Steel repairs

27th
September
17-19.00 h.
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5 Ship conversion



Speaker: Juan Luis Sánchez (Astander)

Objectives:

1. Definitions and types of ship conversions
2. Understand the advantages/disadvantages of a ship conversion versus a new building
3. Explanation of the main differences between a ship conversion yard and a ship repair yard
4. Description and organization of a conversion project.

28th
September
17-19.00 h.
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6

The difference in repair and maintenance on warships



Speaker: José María Riola (Escuela Naval de Cadetes "Almirante Padilla")

Objectives:

1. Warship construction program
2. Maintenance plans and E.M. requirements
3. Integrated platform control system
4. Applied artificial intelligence

29th
September
17-19.00 h.
*

7

Safety at naval repair works: An integral view



Speaker: Roberto Hernández de la Iglesia (Zamakona)

Objectives:

1. Repair works from concept to post works review
2. Evaluation and mitigation of risks
3. Coordinations of different repair players
4. Safety and environment influences

30th
September
17-19.00 h.
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8

Offshore wind farms: Overview of the operation and maintenance activities



Speaker: Tito Rúa Ferreiro (Engineer in operation and maintenance of wind farms)

Objectives:

1. To be familiar with the common offshore windfarms layout
2. To get an overview of the organization and logistics behind and operational asset
3. To have an approach to the main maintenance packages
4. To highlight the main differences between offshore and onshore windfarms

4th
October
17-19.00 h.
*

9

Offshore windfarm: Fabrication aspects



Speaker: Carla Chawla (Navantia)

Objectives:

1. Diferentes types of platforms
2. Advantages & disadvantages of the different types
3. Jackets pre and post-piled
4. Planning aspects for fabrication in jackets

5th
October
17-19.00 h.
*

10

Operation and maintenance planning of offshore renewable energy (ORE) devices



Speaker: Dr. Giovanni Rinaldi (University of Exeter)

Objectives:

1. Comprehend the importance of O&M planning for offshore renewables
2. Recognize current O&M practices in the ORE sector
3. Familiarize with techniques, risks and constraints in the O&M of ORE devices
4. Understand logic and working principles of ORE O&M planning tools

6th
October
17-19.00 h.
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11

Offshore drilling units: Equipment and its operation



Speaker: Ismael Fernández Gil (Bluenewables)

Objectives:

1. Description and classification of type of units.
2. Drilling equipment
3. Well control and subsea equipment
4. Drilling operation overview

7th
October
17-19.00 h.
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12

Introduction to the superyacht industry and the refit management



Speaker: Marc Valderrama (MB92)

Objectives:

1. To be aware of the particularities of a superyacht and its industry
2. To know the technology applied in the superyachts new builds and refits and to understand of where is heading
3. To comprehend the Superyacht Owner's expectations and its implications in the refit
4. To be aware of the project's life cycle in a superyacht refit

8th
October
17-19.00 h.
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