



leanwind

Logistic Efficiencies And Naval architecture for Wind Installations with Novel Developments

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| 1.1 | 2017.10.24 | FORCE Technology | Jacob Michelsen & John Koch Nielsen | Karsten Lundsgaard Haegg | Karsten Lundsgaard Haegg |
| 1.2 | 2017.11.20 | Maersk Training Svendborg | Karsten Lundsgaard Haegg | John Koch Nielsen Jochen Giebhart Jan Arthur Norbeck | Karsten Lundsgaard Haegg |
| 1.3 | 2017.11.23 | FORCE Technology | Jacob Michelsen & John Koch Nielsen | Karsten Lundsgaard Haegg | Karsten Lundsgaard Haegg |
| 1.3 | 2017.11.27 | Maersk Training Svendborg | Karsten Lundsgaard Haegg | John Koch Nielsen | Jan Arthur Norbeck |

Author(s) information (alphabetical):

| Name | Organisation |
|--------------------------|---------------------------|
| Jacob Michelsen | FORCE Technology |
| John Koch Nielsen | FORCE Technology |
| Karsten Lundsgaard Haegg | Maersk Training Svendborg |

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|---------------------------------|--------------|
| Name | Organisation |
| | |

Definitions

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|------------|---------------------------------------------------------------|--|--|
| O&M Vessel | Operation and Maintenance Vessel | | |
| IV | Installation Vessel | | |
| RAO | (Wave) Response Amplitude Operator in the frequency domain | | |
| Hs | Significant wave height | | |
| DP | Dynamic Positioning | | |
| PRS | Position Reference System | | |
| SNAME | Society of Naval Architects and Marine Engineers | | |
| DOF | Degrees of Freedom | | |
| WT | Wind Turbine | | |
| OWF | Offshore Wind Turbine Foundation | | |
| TP | Transition Piece | | |
| LNG | Liquid Natural Gas | | |
| CoC | Certificate of Competence | | |
| DGNSS | Differential Global Navigation Satellite System | | |
| SMS | Ship Model Software | | |
| IMCA | International Marine Contractors Association | | |
| IMO | United Nations' International Maritime Organisation | | |
| HMI | Human Machine Interface | | |

Executive Summary

This report details the training package suggestion of the vessel concepts developed in the EU LEANWIND FP7 project. The training package suggestions are directed towards vessel types used for both wind farm installation and O&M.

The objective of this work is to make suggestions for the training which can be conducted for a novel installation or O&M vessels in order to speeding up the intake into the market and to increase safety and competence of the crew in a safe environment.

The report also describes the simulator tools developed in the LEANWIND project and how they can be utilised for the training.

The report outlines the following items for both vessel types:

- Industry challenges
- Leanwind Vessel design
- Training objectives to enhance competences of operating a novel design vessel
- Description of developed simulator training tools
- Examples of learning programs
- Examples of Learning Syllabus

The report completes this study with an overview of potential safety and cost benefits that a structured approach to training can provide.