



OFFSHORE WIND FOR PROFESSIONALS

SPECIALIZED COURSE 1: DESIGN

02 -03 April 2019



COURSE CONTENT

Japan has the world's eighth-largest exclusive economic zone, with abundant seabed resources and wind available. This potential is largely unused. Japan wishes to utilise this potential as part of the nation's growth strategy. Therefore, Japan aims to increase the number of offshore engineers to 10.000 by 2030 to serve a 50 trillion-yen market. Currently, only 2.200 offshore engineers work in this sector, because of the shortcoming in knowledge and education in the offshore industry. To realise this increase in engineers, the Ocean Innovation Consortium was launched in 2016, cultivating human resources involved in offshore development. One of the vehicles to address this challenge is by providing professional engineering courses. With its experience in Europe and expertise on topics ranging from EPC contracting, transport & logistics, design of windturbine foundations and floating foundations, DOB-Academy is well-prepared to educate and motivate the (young) professionals in Japan.

PROGRAMME COURSE 1

Day 1: Design 02 April 2019

Background offshore wind
Design considerations
Data collection and processing
Workshop: Site Data
Workshop: Design your own rotor
Workshop: Wind turbine selection

Day 2: Design 03 April 2019

Wake effects
Offshore power networks
Workshop: Power network design
Introduction to support structure design
Workshop: Monopile optimisation
Floating support structures

TARGET AUDIENCE

This course has been developed for professionals or academics new in the offshore wind industry and for those who want to increase their understanding and built upon their experience. It is effective for engineers who would like a thorough understanding of the driving principles for the design and execution of wind farms. It is also valuable for managers who would like to strengthen their understanding of the playing field and the key considerations for the engineers.

DESIGN

Specifically, the design course is effective for engineers involved in the early phase of an offshore wind farm, in which the components are selected and the layout is determined based on site characteristics and tender criteria. Furthermore, it is valuable for investors, bankers and executives who wish to gain insights in the influence of design considerations in the feasibility, risk and output of an offshore wind farm.



ABOUT

In this 2 two-day course participants will learn the first principles of the offshore wind energy industry.

Level: Professional

Length: two days

Fee: € 1750 (equivalent to +/- 230.000 JPY).

To be paid by:

- Creditcard at location
- Afterwards by invoice

(bank transfer to Dutch bank account)

Seats: 15-20 participants max. (full=full)

Academic Discount (25%): Available (limited seats)

Dates: 02-03 April 2019

Location:

Tokyo Bayside Building
3-33-17 Kaigan, Minato-ku Tokyo, 〒108-0022, Japan

Simultaneous translator from English to Japanese: Available

For more information please contact:

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Erollment can be done through our website:

<https://goo.gl/4SndjD>



Subscription open untill: 18th of March 2019

LEARNING OBJECTIVES

- Understanding the rapid growth and development of the offshore wind energy industry
- Gaining a basic understanding of key design parameters in the design of offshore wind turbines and their foundations.
- Understanding the impact of the different design parameters in the wind farm lay out design including, wake effects, cable transmission losses and bathymetry.
- Understanding how wind is converted into electricity, how this electricity is transported to consumers and how a business case can be built for this
- Gaining insight into the life cycle of a typical wind farm including design, construction, installation, operation and maintenance



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