

OFFSHORE WIND FOR PROFESSIONALS

TWO TWO-DAYS SPECIALIZED COURSES

15-16 & 17-18 January 2019



COURSE CONTENT

Japan has the world's sixth-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 wind turbine foundations, floating foundations, DOB-Academy is willing to educate and motivate the (young) professionals. Hereby increasing their knowledge and skills in the offshore wind industry.

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.

PROGRAMME

Day 1: Design Part I

Course 1

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

Day 2: Design Part II

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

Day 3: Execute Part I

Course 2

European drivers for offshore wind
Wind farm lifecycle
Tendering
Components and supplychain
On and offshore transports
Ports
Workshop: seafastening
Installation logistics

Day 4: Execute Part II

Failures
Operation and maintenance
Insurance
Costs versus income
Project: Project value calculation
Contracting
Trends and future innovations



ABOUT

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

Level: Professional

Length: two two-days

Fee: € 1750 / ¥ 230000 for two days

(to be paid by invoice or creditcard)

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

Dates and enrollment: 15-16 & 17-18 January 2019

Location: Tokyo Bayside Bldg.
3-33-17 Kaigan
Minato-ku Tokyo
108-0022
Japan

Simultaneous translator from English to Japanese: Available

For enrollment or more information please contact:

ken@dob-academy.nl

Subscription open until: 7th of January 2019

DOB-Academy offers offshore energy education for professionals. For the complete curriculum, please visit our website.

LEARNING OBJECTIVES

- Understanding the rapid growth and development of the offshore wind energy industry
- Gain a basic understanding of key design parameters in the design of offshore wind turbines and their foundations.
- Understanding how wind is converted into electricity, how this electricity is transported to consumers and how a business case can be built for this
- Identify the components to be transported and installed and understand how synergies can be created between these components to increase the efficiency of the operation
- Gaining insight into the life cycle of a typical wind farm including design, construction, installation, operation and maintenance
- Understand the need for a well developed maintenance strategy based on a better understanding of failures and comprehend how insurances can help mitigate some of these risks.
- Understand the dynamics of contracts and how these can limit your operation or open up new opportunities

De Oude Bibliotheek Academy
Raam 180
2611 WP Delft
+31 15 24 00 555

post@dob-academy.nl
www.dob-academy.nl