



FORMACIÓN

Higher Education Programme in Offshore Wind

Mode: eLearning || **Duration:** 6 months || **Fee:** web consulting

Degree

The students who successfully pass the evaluation process with the required academic results will receive the Higher Education Programme Certificate in Offshore Wind by Bureau Veritas School.

BUREAU VERITAS
business school
eLearning

IME Instituto
Marítimo
Español

Introduction

Wind energy technologies and, in particular, wind offshore might contribute significantly to cover an increasing energy demand with a lower impact on climate.

The development of offshore wind farms is growing at a high rate in Europe. Only in the UK the figures shows this development: over 40.000 MW by 2020, equivalent to 4% of the coverage of electricity demand and 150.000 MW by 2030 reaching a 15% coverage of the total electricity demand at European level; this development will offer attractive career opportunities for high skilled professionals.

Student Profile

This programme is designed for Economists, Naval Architects, Marine Engineers, Industrial Engineers, Environmental Engineers, Mining Engineers and other graduates and professionals interested in a growing industry that will be creating an incredibly dynamic new job market in the next decade

This Course is also available for professionals who already work in the energy field and would like to become more specialized in an increasing complex area in which there are not enough skilled professionals able to manage the various wide ranges of projects in this sector.

All candidates must demonstrate competency in English, as the entire course is conducted in English.



Career Opportunities

- Consultants, technical experts in the wind offshore business.
- Operation and Maintenance technicians, supervisors and operators.
- Contracting managers, analysts and consultants.
- Business development managers.
- Health and Safety specialists.
- Geophysical experts.

Programme Objectives

This programme will allow the students to acquire the following skills:

- Enhance technical capabilities and comprehension of the different renewable marine technologies.
- Increase the skills necessary to manage the planning requirements for marine renewable energy installations.
- Acquire sufficient knowledge of the operation and maintenance of the installations, the main technical barriers, health and safety and the key elements of the contract.
- Dominate the economics of renewable marine technologies and the different possible finance structures of the project.



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Professor/Expert

M^a Dolores Esteban

Ph.D and Master in civil Engineering. Master in Project Management. Master in Marine Renewable Energies.

Professional experience in technical and economic management of wind facilities, both onshore and offshore, and in design of maritime projects. Experiencia docente en los campos de ingeniería marítima y energías renovables. Lecturer in maritime engineering and renewable energies.

Research experience in maritime engineering and renewable energies, being involved in R&D projects, work groups, publishing technical papers and being technical reviewer for different journals, giving oral presentations in national and international conferences, etc.

Since 2006, she works in Iberdrola Renewable. Currently, she is responsible for the Civil & Structural Team within Global Technical Services. Previously, she has held different positions in the Development Area and in the Offshore Wind Business, both of them in Iberdrola Renewable. Furthermore, she collaborates as lecturer and researcher in the European University and in the Technical University of Madrid

Programme

SUBJECT 1: TECHNICAL ASPECTS OF MARINE TECHNOLOGIES: OFFSHORE WIND FARMS

- Designing of an Offshore Wind Farms
- Designing the Project Management
- Describing Construction and Installation of an Offshore Wind Farm.
- Understanding Offshore Wind Turbines
- Understanding Foundations
- Illustrating Grid Connection



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SUBJECT 2: OPERATION AND MAINTENANCE OF OFFSHORE WIND FARMS.

- Understanding the Cost Associated with the Value Chain Activities
- Understanding the Main Hurdles to Delivering O&M
- Managing the Health, Safety and Environmental Risk
- Understanding Availability
- Understanding the Contingency Plan
- Understanding the Commercial Aspects of Offshore Wind Operations and Maintenance

SUBJECT 3: ECONOMICS OF OFFSHORE WIND FARMS

- Understanding International Framework for Marine Energies
- Understanding Incentives to Marine Energies
- Understanding Offshore Wind Financing
- Understanding Marine Energies Costs
- Understanding Risks
- Understanding Financial Modelling

Contact

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