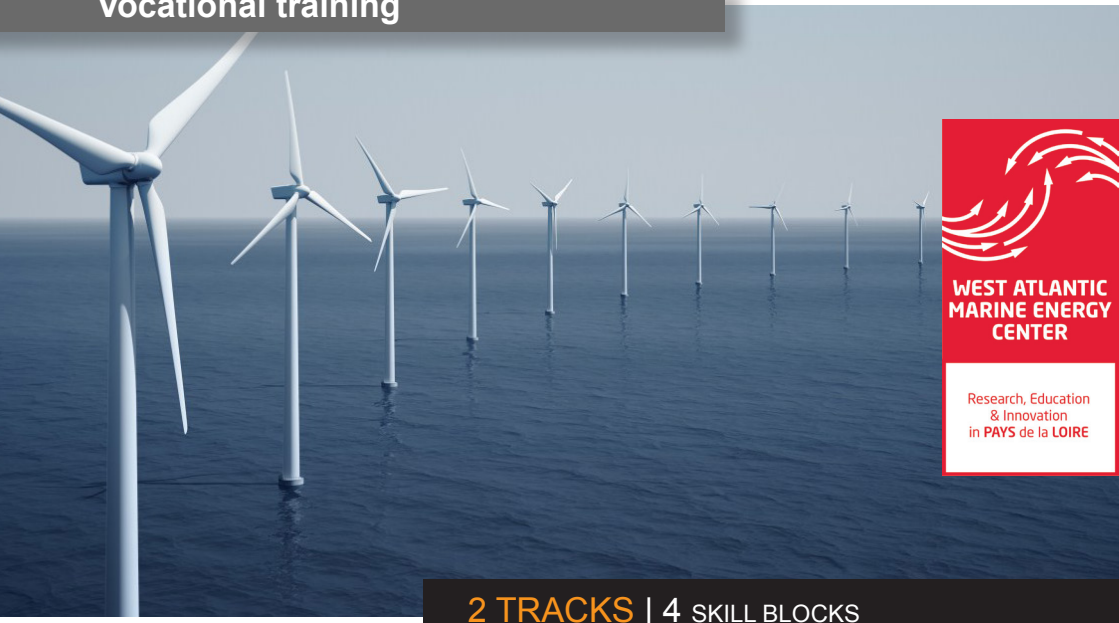
Unique in France

TRAINING

MARINE RENEWABLE ENERGIES

FROM PRELIMINARY PROJECTS STUDY
TO USING THE TECHNOLOGY

Vocational training



WEST ATLANTIC MARINE ENERGY CENTER

Research, Education & Innovation in PAYS de la LOIRE

2 TRACKS | 4 SKILL BLOCKS

Your MRE projects are supported by our training programmes

22 high-level operational modules

Tailor-made intra-company and training programmes

2 CERTIFICATES :

MARINE RENEWABLE ENERGIES TECHNICAL ADVISOR
MARINE RENEWABLE ENERGIES PROJECT MANAGER

Centrale Nantes · Université de Nantes · IRT Jules Verne · EMC2 · Union Européenne · Région Pays de la Loire · Nantes Métropole · CARENE Saint-Nazaire Agglomération

CE PROJET EST COFINANCÉ PAR LE FONDS EUROPÉEN DE DÉVELOPPEMENT RÉGIONAL

WEAMEC

proposes training programs suited to your contexts and needs.

3 INPUTS :

2 CERTIFYING TRACKS

MRE TECHNICAL ADVISOR

Provide technical support for operational teams - Contribute to the development of the technical skills.

MRE PROJECT MANAGER

Specify and drive every stage of an MRE project.

4 BLOCKS OF SKILLS

Block 1 - Design and engineering of MRE parks, environmental studies, site and resource characterization.

Block 2 - Design and engineering of MRE devices, from design to manufacturingand and construction to assembly.

Block 3 - Design and coordination of the offshore installation of MRE farms and MRE devices, consistent with the environment and the marine space.

Block 4 - Follow-up of the various stages of the MRE farms life-cycle of, from operation to maintenance to dismantling.

22 MODULES

Track 1 | « Core » - MRE Technical advisor

1. Offshore technology : MRE overview
> 2 days

2. Marine environment: fundamentals*> 1 day*

3. Maritime spaces: a shared space
> 1 day

4. Maritime law and maritime zoning
> 1 day

5. Hydrodynamics of MRE devices
> 2 days

6. Marine geotechnics
> 3 days

7. Design and connection of a energy conversion chain to the grid
> 2 days

8. Design and certification principles ofoffshore foundations and floating structures
> 2 days

9. MRE in english
> 3 days

Track 2 | « Expert » - MRE Project manager

1. Sedimentary transport
> 1 day

2. Advanced marine geotechnics
> 2,5 days

3. Technical rules for the design of reinforced-concrete structures
> 2 days

4. Site monitoring
> 1 day

5. Optimal farm layout and grid connection study
> 2,5 days

6. Economic approach to MRE - exploitation and associated storage
> 1 day

7. **Environmental studies: from the preparation to the authorization**
> 1 day

8. Installation and anchoring
> 1 day

9. Wave energy conversion
> 3 days

10. Corrosion and biocorrosion
> 1,5 days

11. Infrastructure instrumentation
> 2 days

12. Training on open source software - NEMOH : computation of the wave-structure interactions
> 1 day delivered by INNOSEA.

13. Understanding of the risks at sea on an offshore wind farm
> 2 days delivred by l'ENSM.

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