

Unique in France

TRAINING

MARINE RENEWABLE ENERGIES

FROM PRELIMINARY PROJECTS STUDY
TO USING TECHNOLOGIES

Vocational training



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



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 manufacturing 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 technologies : 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 of offshore 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 mooring
> 2 days
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 delivered by l'ENSM.

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