FLORES

Offshore Renewable Energies partnership in the Pact for Skills

Analysis of ORE Training Offers

18 December 2023

Co-funded by the European Union

About this Report

Forward Looking at the Offshore Renewables will promote the core activity of the Large-scale partnership launching the Pact for Skills in the Offshore Renewable Energies (ORE) sector. FLORES will support the most committed stakeholders in the ORE, underpinning the success of the offshore renewable energy strategy with the stimulation of dedicated training offers. The partnership will promote the skilling process for the new jobs expected in the sector, estimated to account for between 20,000 and 54,000 new workers in the following five years and contribute to improve upskilling opportunities in the field of the actual ORE workforce.

Project duration: January 2023 – December 2024 (24 months)
www.oreskills.eu

Document information	
Short description	Report summarizing the training opportunities available across several EU countries relevant to the ORE (Offshore Renewable Energy) sector.
Next steps	This analysis contributes to task 2.3 of WP2.
Work Package	WP 2: Observatory skills needs and offer
Task	Task 2.2. Mapping the EU Training offer
Deliverable	D2.2. Map of the ORE Training offer
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Contents

Task 2.2 Mapping Training Offer

1. Background and Purpose

The offshore renewables sector (ORE), encompassing wind, wave, thermal and tidal energy, is a critical component of the global effort to mitigate the effects of climate change. As this sector expands, the demand for skilled professionals in various occupational roles is rapidly increasing. This report showcases the analysis of training offers collected by the FLORES partnership in order to identify occupational profiles within the ORE sector, shedding light on the training content, type, format and EQF levels.

2. Methodology

Available training offers were collected from 5th March to 4th September 2023. Following the guidelines and hands-on activities workshop provided by UGent, each partner entered trainings from an assigned country. The FLORES specific catalogue is available on https://www.marinetraining.org/flores, and it is linked to the FLORES webpage at https://oreskills.eu/ore-skills-careers/. We also used the information provided by academic and industry experts that was gathered during the focus group carried out on April 2023. This data will feed the analysis of job offers and recruitment trends within the offshore renewables sector. The findings presented in this report are based on data retrieved on 4th September 2023.

After retrieving the data from marinetraining.eu, data cleaning was performed in order to remove duplicates, and other input that was not considered as training (i.e. 'events' are not considered training, individual PhD positions are not considered as programs/short trainings). In addition, links were double-checked to identify missing fields such as format, language or venue.

3. Results

3.1. Training Offer

A total of 365 training opportunities were entered into the MarineTraining Catalogue. After data cleaning, 279 training opportunities were used for analysis. Data were organized by content type, training format, training type and country (figure 1-3).

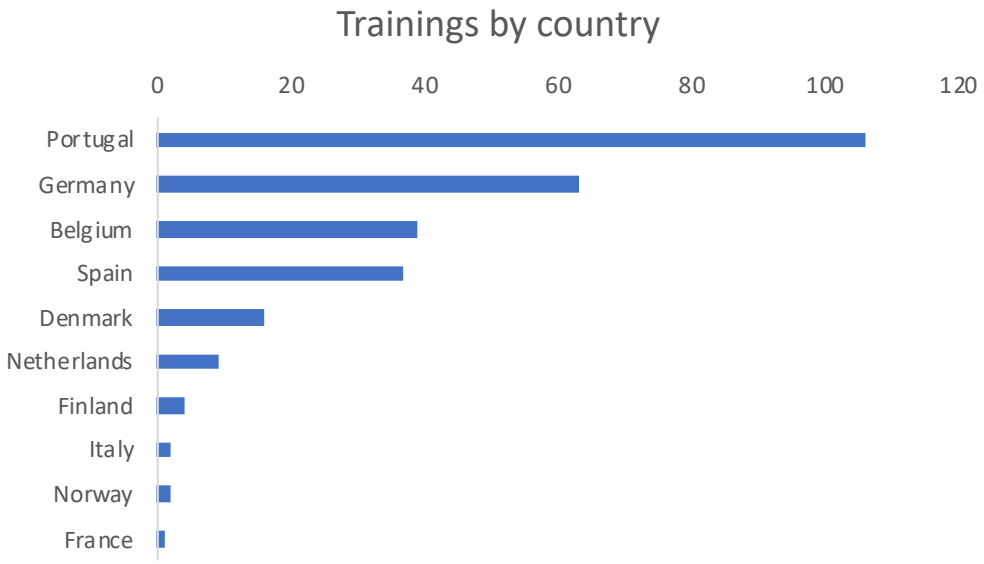

Figure 1. FLORES Training offers organized by country

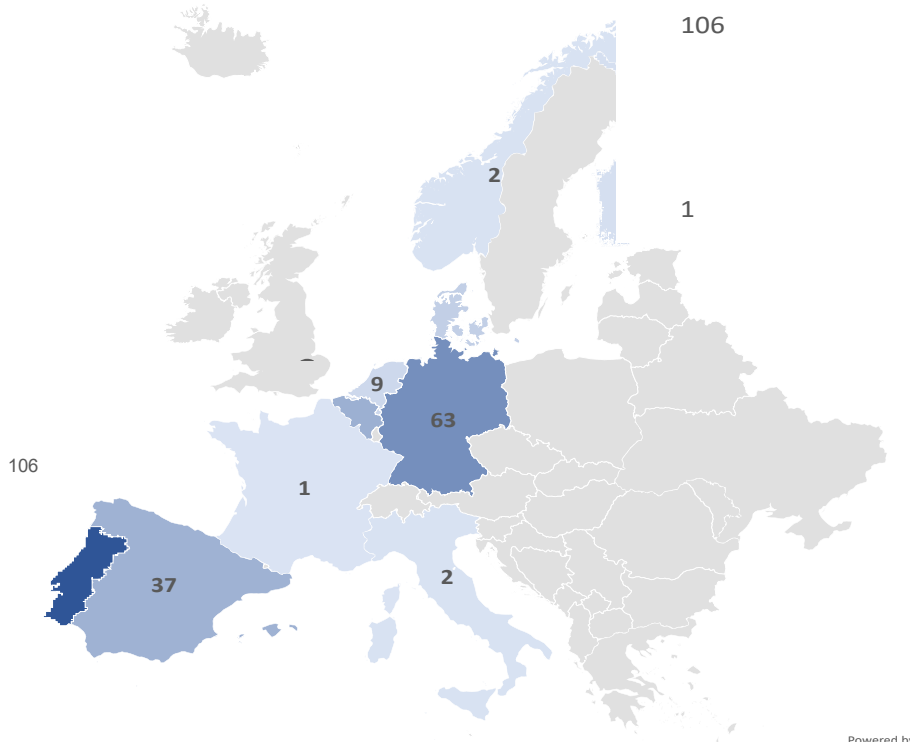

Figure 2. Country representation of FLORES training collection

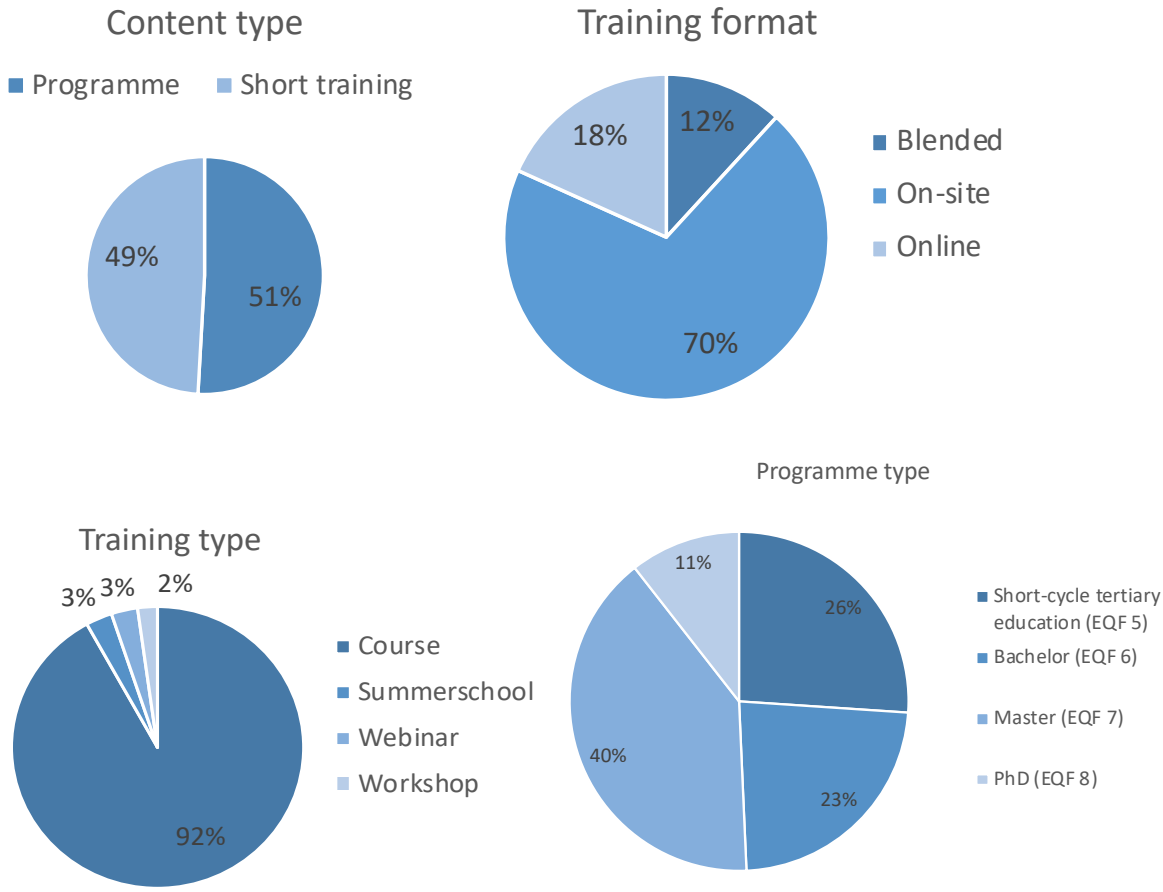

Figure 3. Classification of FLORES training offers (upper left) by content type, (upper right) by trainings format, (bottom left) by training type, and (bottom right) by programme type.

3.2. Identification of occupational profiles.

Semantic analysis

A Chat GPT Prompt was used to perform a semantic analysis and identify the most relevant professional profiles using the information contained in the course titles of the training collection. Then, results were validated using manual text analysis and word frequency analysis (NVIVO). Occupational profiles in green (*) were suggested during the focus group performed on April 2023.

Engineers	Offshore Renewable Energy Engineer
	Offshore Wind Farm Designer/Engineer
	Solar Energy Systems Engineer
	Electrical Engineer (Renewable Energy)
	Mechanical Engineer (Renewable Energy)
	Maritime Engineer
	Smart grid Engineer*
	Artificial Intelligence Engineer*
Technicians	Wind Turbine Technician
	Solar Energy Technician
	Maritime Technician
	Smart grid Technician*
Managers	Renewable Energy Project
	Offshore Installation Manager (OIM)
Analysts/Consultants	Marine Energy Technology
	Policy and Regulation (Renewable Energy)
	Energy Management Specialist
	Environmental Impact
	Finance and Commercialization
	Energy technology
Safety & Health	Offshore Safety and Emergency Response Coordinator

3.3. Map of the training offer

FLOES project developed a map of EU training offers in the ORE, which included all these trainings as well as the new training offers identified during 2024 . The map is hosted in the www.marinetraining.eu catalogue, accessible from the FLORES website with this direct link: https://www.marinetraining.eu/flores/map

4. Annexes

Table S.1 Content type classification of training offers in the FLORES collection.

Content type	count	%
Programme	142	51
Short training	137	49
Total	279	100

Table S.2 Training format classification of training offers in the FLORES collection.

Training format	Count	%
Blended	33	12
On-site	195	70
Online	51	18
Total	279	100

Table S.3 Training type classification of training offers in the FLORES collection.

Training type	Count	%
Course	126	92
Summerschool	4	3
Webinar	4	3
Workshop	3	2
Total	137	100

Table S.4 Program type classification of training offers in the FLORES collection.

Program type	Count	%
Short-cycle tertiary education (EQF 5	37	26
Bachelor (EQF 6)	33	23
Master (EQF 7)	57	40
PhD (EQF 8)	15	11
Total	142	100

Table S.1 Country classification of training offers in the FLORES collection.

Country	Count	%
Portugal	106	38
Germany	63	23
Belgium	39	14
Spain	37	13
Denmark	16	6
Netherlands	9	3
Finland	4	1
Italy	2	1
Norway	2	1
France	1	0

Total	279	100

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