



MEDports TRAINING PROGRAM ENERGY TRANSITION

2021-22



MEDports Association is a nonprofit association created in June 2018, gathering 25 Mediterranean Ports authorities representing near 70% of the total traffic handled in the Mediterranean Sea.

MEDports Association aims at creating a new area of collaboration, production and exchange between the Mediterranean ports on common issues and is also promoting the international visibility of the Mediterranean maritime and port area, a true connected and connecting platform between Asia, Africa and Europe.



MED
INTERESTS
PROMOTION



KNOWLEDGE &
BEST PRACTICES
SHARING



MEETINGS &
NETWORKING
SESSIONS
ORGANISATION



DIALOGUE WITH
DECISIONS
MAKERS

The activity of the association is organized thanks to the involvement of its members around the six technical committees working on key themes of the sea and port :

- Relations with International Institutions;
- Marketing Statistics and Analysis
- Sustainability
- Safety and Security; Smartport
- Employment, Training and Maritime Expertise; (ETME)

This committee ETME, is focusing on identifying training needs for ports through detection and identification of professional profiles and by promoting training programs for port employees.

The 5 training centers that lead the ETME are: Escola Europea, Arab Academy, L'Institut Marseille, Fundación Valenciaport, Institut Méditerranéen de Formation aux Métiers Maritimes.





In 2019, a survey on the most requested professional profiles in Mediterranean ports was conducted by ETME. The survey identified profiles needed in ports in four main areas (Port management, IT, environment and city port, port construction and security and safety).

Seven profiles were highlighted as very relevant by participants.

1. BIG DATA ANALYST

2. CIBERSECURITY MANAGER

3. MANAGER OF INTERMODAL NETWORK

4. COLD SUPPLY CHAIN EXPERT

5. ENERGY TRANSITION MANAGER

6. ONSHORE POWER SUPPLY CHAIN

7. CIRCULAR ECONOMY MANAGER

These profiles are not covered or deficiently covered by current training programmes. We have worked on the detailed definition of these profiles and added an additional one on Onshore-Power-Supply bearing in mind the increasing relevance of this topic.

These job profiles will be key for the future development of Mediterranean ports and they will contribute greatly to their efficiency and competitiveness in a changing environment.

The adaptation by ports to new market requirements is a key element for ports' success and their contribution to the society which may be threatened by the lack of the required training.

Each center has designed a course aligned with the new profiles to face the challenges of the ports

- October 2021: Energy Transition – Escola Europea
- December 2021: Supply Chain Resilience – Arab Academy
- February 2022: Innovative Subsidiaries for sustainable port activities – L'Institut Marseille
- April 2022: Digital Transition - Fundación Valenciaport
- June 2022: Maritime Transport and Supply Chain – IMFMM



SUPPLY CHAIN
RESILENCE

DECEMBER 2021



INNOVATIVE SUBSIDIARIES &
SUSTAINABLES PORT ACTIVITIES

FEBRUARY 2022



DIGITAL
TRANSFORMATION

APRIL 2022



MARITIME TRANSPORT
AND SUPPLY CHAIN

JUNE 2022



ENERGY TRANSITION MANAGEMENT



Energy transition has become a central pillar of the strategies of port authorities, aiming to reduce the environmental impact of the flow of goods through ports. It has also proven itself to be a key element in the relations with and impact generated towards urban centres located near port areas. The port authorities, supported by all the stakeholders of their surrounding port communities, must prioritise transforming existing systems into models based on renewable and intelligent energy.

The general objective of the course is to raise awareness and provide information to the management and technical staff of port authorities that are part of MEDPorts Association on the following specific aspects related to energy transition.

Theme 1: Introduction to energy transition

Theme 2: Legal framework and decarbonisation targets

Theme 3: Energy transition tools in terminals and port areas

Theme 4: Energy transition tools in transport

Theme 5: Energy transition in port authorities



Date: 19,20,21,26,27,28 October

2, 3, 4 November

Hours: 32



Modality: Online

+ info: <https://escolaeuropea.eu/>



ENERGY TRANSITION

“Transforming our current energy infrastructure has taken centre stage is both our political and social dimensions. The transport sector has also taken note, and many private and public entities have already taken (sometimes) drastic steps to try to lower the carbon footprint of transport. Ports, in particular, have taken note – knowing that they represent the connection between the sea and the land, and therefore need to lead in the sustainable revolution and guide both land, rail and sea transport operators on the path towards decarbonisation.

Energy transition has become a main pillar of the strategies of port authorities, aiming to reduce the environmental impact of the flow of goods through ports. It has also proven itself to be a key element in the relations with and impact generated towards urban centres located near port areas. The port authorities, supported by all the stakeholders of their surrounding port communities, must prioritise transforming existing systems into models based on renewable and intelligent energy.

This training course presents a unique vision of the ports and their energy management system., counting of lead companies and lead research institutions in the Mediterranean:



>> OBJECTIVES

The general objective of the course is to raise awareness and provide information to the management and technical staff of port authorities that are part of MEDPorts Association on the following specific aspects related to energy transition:

Course Objectives

- To understand the current energy situation in ports which drives the transformation of systems to more sustainable energy models in port-logistic communities.
- To get to know the international and European legal framework and the objectives established to promote energy transitions.
- To identify key elements that contribute to energy transition in the port and freight transport sector: renewable energy, energy efficiency, smart management systems and circular economy.
- To understand the role of port authorities and their actions as promoters of new energy models in their port logistics communities.

How?

- Obtaining knowledge about the current situation in ports and how they face the future through lectures and debates with industry experts.
- Providing training and information to people who will manage and make decisions in ports.

Participants' profile

The course is aimed at managers and technical staff of port authorities that are part of MEDPorts Association, with the goal of raising awareness of the importance of sustainable energy models in the sector and providing information on transitions to greener systems.





TUITION



General admission:

1800€/ pers.



First registration of
MedPorts

Associate: **Free
admission**



Second registration of
MedPorts Association:

500€/pers

*FUNDAE subsidized courses for
Spanish companies

 **Fundación Estatal**
PARA LA FORMACIÓN EN EL EMPLEO



>> LECTURES

• The course is divided into the following topics:

Topic 1: Introduction to energy transition

Topic 2: Legal framework and decarbonisation targets

Topic 3: Energy transition tools in terminals and port areas:

- Energy efficiency in terminals and warehouses
- Renewable energy generation
- Self-consumption, storage and power-purchase agreement
- Shared consumption and the Smart Grid
- Intelligent System Management
- Circular Economy

Topic 4: Energy transition tools in transport:

- Efficiency in mobility of goods
- Zero carbon fuels

Topic 5: Energy transition in port authorities

- Energy consumption models
- The role of port authorities
- On-shore Power Supply (OPS)
- Organisation of energy transition in port areas



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ENERGY TRANSITION PROGRAM



PROGRAMME

TUESDAY, 19TH OCTOBER

15:00 Presentation of the course

15:45 Why is Energy Transition relevant: the reasons – *Jordi Vila (APB)*

16:45 Break

17:00 Why is Energy Transition relevant: the objectives – *Xavier Sabaté (APB)*

18:00 Legal Framework: a vision from Europe – Marsella

19:00 End of the day

WEDNESDAY, 20TH OCTOBER

15:00 Legal Framework: a vision from Africa – *Arab Academy*

16:00 Decarbonisation objectives – Siamak Jalali (DG Move)

18 :00 Break

18 :15 Renewable energy generation. Typology and basic data (part I) – *Hector Lorient (Cefiner)*

19:00 End of the day

THURSDAY, 21ST OCTOBER

15:00 Renewable energy generation. Typology and basic data (part II) – *Hector Lorient (Cefiner)*

16:15 Energy savings and efficiency in logistics warehouses and port terminals (part I) – *Esther Izquierdo (Presidenta - Cluster d’Eficiencia Energètica)*

17:15 Break

17:30 Energy savings and efficiency in logistics warehouses and port terminals (part II) – *Esther Izquierdo (Presidenta - Cluster d’Eficiencia Energètica)*

18:30 Debate

19:00 End of the day



PROGRAMME

TUESDAY, 26TH OCTOBER

15:00 Generation of renewable electricity: self-consumption, storage, power-purchase agreement (PPA) – *Albert Cot - Comsa*

17:00 Break

17:15 Renewable energy generation. Shared consumption. Closed lines. Smart grid. Demand management. (part I) – *Carles Beltran – Roofpower*

19:00 End of the day

WEDNESDAY, 27TH OCTOBER

15:00 Renewable energy generation. Shared consumption. Closed lines. Smart grid. Demand management. (part II) – *Carles Beltran – Roofpower*

16:15 Circular economy: examples in port terminals. Industrial symbiosis. (part I) – *Fundación ValenciaPort*

17:15 Break

17:30 Circular economy: examples in port terminals. Industrial symbiosis. (part II) – *Fundación ValenciaPort*

18:30 Debate

19:00 End of the day

THURSDAY, 28TH OCTOBER

15:00 Intelligent System Management – *Miquel Pérez (Solve)*

17:00 Break

17:15 Efficiency in mobility of goods. Vessels, trucks and terminal equipment. – *Sergi Saurí (Cenit - UPC)*

19:00 End of the day



PROGRAMME

TUESDAY, 2ND NOVEMBER

15:00 Towards new zero carbon fuels (part I) – *Albert Tarancón (Institut de Recerca d'Energies de Catalunya)*

17 :00 Break

17 :15 Change in the role of consumers and the electricity sector. New opportunities – *Xavier Sabaté (APB)*

19 :00 End of the day

WEDNESDAY, 3RD NOVEMBER

15 :00 Towards new zero carbon fuels (part II) – *Marc Torrell (Institut de Recerca d'Energies de Catalunya)*

16 :00 The role of port authorities – *Isabelle Ryckbost (ESPO)*

17:00 Break

17:15 The role of port authorities – *Isabelle Ryckbost (ESPO)*

18:00 How to organise the transition in port environments and logistics zones – *Piet Ophaele (Antwerpen)*

19:00 End of the day

THURSDAY, 4th NOVEMBER

15:00 How to organise the transition in port environments and logistics zones – *Piet Ophaele (Antwerpen)*

17:00 Break

17:15 On-shore Power Supply (OPS): electrification of piers – *Ana Arévalo (APB)*

19:00 Closing Ceremony

19:30 End of the training



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