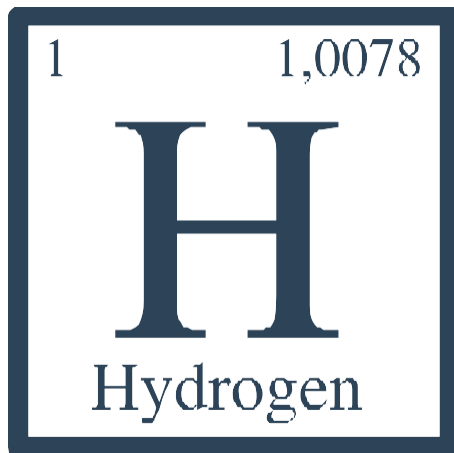




T-shore
Education

Theory Exercise

Checklist



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Erasmus+

Enriching lives, opening minds.

Module:

Power-to-X

Learning scenario:

**Introduction to Power-
To-X**



Atlantic Technological University		Scalda	
Energy Innovation		Skilliant	
Fagskolen Rogaland		Skive College	
Hydrogen Valley		TCNN	
Katapult		Wind Energy Ireland	
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This document has been created as part of the wider T-shore project, co-funded through the European Union's ERASMUS+ programme.



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Document Information

Project Acronym	T-shore
Project Title	Technical Skills for Harmonised Offshore Renewable Energy
Award Number	Project 101055746
Work Package	WP3,4
Deliverable	LSC – Theory Exercises Checklist
Document Title	Power-to-X Theory Exercises Checklist
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Co-Author(s)	All partners

Version Control

Version No.	Date	Description	Prepared by	Checked by
01	28.04.2025	New instruction created, cosmetic changes	DLN	HJ
02	03.05.2025	Document Updated	DH	Hj

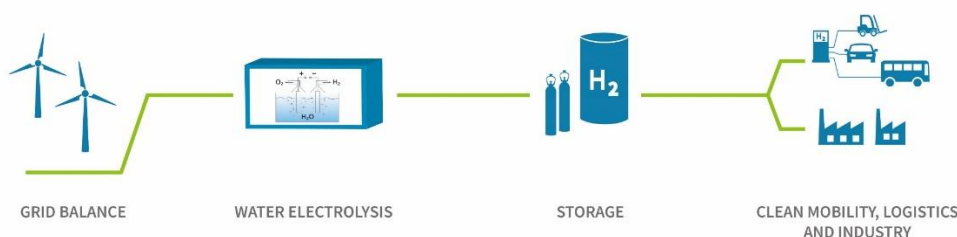
***Note** This is a fictive generic equipment checklist intended for training purposes and therefore may vary from the equipment checklist provided by a company. It is important that a technician always read and fill checklist carefully prior to any task..*

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Table 1. Documentation overview

Order number	
Order name	
WTG serial number, range	
Site name	
Date	
Reporting by	


Table 2. *exercises* checklist
Student Checklist for Power-to-X Facility Visit
Before the Visit

- ☐ Review basic concepts: renewable energy, electricity grids, electrolysis, and hydrogen production.
- ☐ Understand the importance of balancing electricity supply and demand.
- ☐ Familiarize yourself with PEM (Proton Exchange Membrane) electrolysis technology.
- ☐ Prepare 2-3 relevant questions to ask during the visit:

During the Visit

- ☐ Actively listen to explanations by the instructor, tour guide, and operations manager.
- ☐ Take structured notes on:
 - Grid balance and fluctuation of wind energy:

- Process of water electrolysis and hydrogen storage:



-
-
- Specific features and advantages of PEM electrolysis:

- Safety and operational aspects of Power-to-X systems:

- ☐ Participate in visual inspection and connect observations to theoretical knowledge.
- ☐ Ask prepared questions and any new questions that arise during the tour.

After the Visit

- ☐ Summarize key learnings in a short report or learning journal.
- ☐ Reflect on how Power-to-X technologies contribute to renewable energy storage and grid stability.
- ☐ Identify any areas where further study or clarification is needed.

Additional Notes:

Date:





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The T-shore project is funded through the the
Erasmus+ Centres of Vocational Excellence
(CoVEs) call 2021

Acknowledgements

We would like to extend our sincere thanks to all the project partners for their invaluable contributions to this report and their dedicated work on the T-shore project.

Our deepest appreciation also goes to all T-shore stakeholders, particularly the members of the regional Centres of Vocational Excellence (CoVEs), whose ongoing efforts are instrumental in driving the success of this initiative.

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