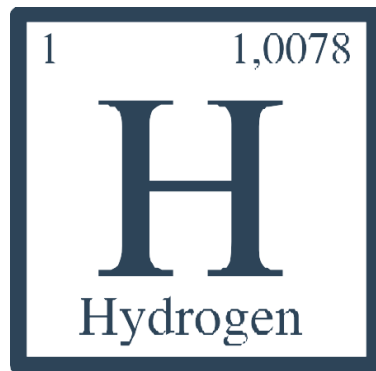




T-shore
Education

Risk Assessment:

Example for Instructor



Erasmus+
Enriching lives, opening minds.

Module:

Power-to-X

Learning scenario:

**Introduction to Power-
To-X**

General information

This document shall be used as a template for creating Risk Assessment and Safety Measure document for T-shore learning scenarios

This risk assessment document shall as a minimum include:

- mitigations for at least weather and safe evacuation procedures
- testification that the equipment and locations are safe and functional, as well as compliant with the requirements for the applicable learning scenario.

Document control

Version	Date of issue	Author	Approved Management
01	27.05.2025	Jens høffner	

Copyright

This document was developed under the T-shore project, coordinated by Skilliant. © 2024 – Skilliant. All rights reserved. Licensed to the European Education and Culture Executive Agency (EACEA) under conditions.



Keys

Likelihood: 1=Highly unlikely; 2=Unlikely; 3=Possible; 4=Likely; 5=Certain	
Severity:	1=No injury; 2=Minor injury; 3=Medical treatment; 4=Injury with lost working time; 5=Major injury/ fatality
Risk:	Likelihood x Severity

Risk categorisation

Low: 1-5, Green	Tolerable low risk
Medium: 6-11, Yellow	Monitor, control and maintain strict control measures
High: 12-25, Red	Stop activity! Reassess and apply new control measures to reduce risk to an acceptable level (below 11)!

Risk and control measures

Potential hazards	Who is affected?	Risk	Rating			Control Measures to minimise risk	Residual (new) rating		
			A	X	=		A	X	=
			Likelihood	B	C		Likelihood	B	C
			Likelihood	Severity	Risk		Likelihood	Severity	Risk
Incorrect use of measuring instruments (e.g. multimeter)	Participants	Risk of electric shock or equipment damage	3	3	9	<ul style="list-style-type: none"> - Instructor-led demonstrations before training participant use - Supervised hands-on practice only - Use of low-voltage circuits for training 	1	2	2
Failure to use PPE (e.g. gloves, glasses)	Participants / Instructors	Exposure to electric components, arc flashes, or tool-related injuries	3	4	12	<ul style="list-style-type: none"> - Mandatory PPE briefing before each session - Visual PPE check by instructor - No access to practical zones without PPE 	1	3	3

Use of damaged training equipment	Participants	Faulty circuits, short circuits, or unexpected behaviour in components	2	4	8	- Equipment must be checked and signed off before use - Defective items clearly marked and removed from area - Periodic instructor inspections	1	2	2
Incorrect use of measuring instruments (e.g., multimeter, pressure gauge)	Participants	Risk of electric shock, equipment damage	3	3	9	- Instructor demonstration before use- Only supervised operation- Use of low-voltage systems	1	1	2
Failure to use PPE (e.g., gloves, goggles, antistatic clothing)	Participants / Instructors	Exposure to electric components, gas or physical injury	3	4	12	Mandatory PPE briefing- Visual check before entry- No access to lab without PPE	1	1	3
Hydrogen leak during electrolysis	Participants / Instructors	Fire/explosion risk, respiratory hazard	2	5	10	Work in ventilated zones- Continuous leak monitoring- Emergency stop systems in place	1	4	4

Mishandling of electrolysis materials (e.g., electrolyte like KOH)	Participants	Skin/eye burns, chemical exposure	3	4	12	Use of chemical-resistant gloves and goggles- Demonstration on safe handling- Immediate access to eye wash and first aid	1	2	2
Gas ignition from demonstration (burning soap bubbles)	Participants / Instructor	Burns, fire risk	3	4	12	- Only instructor performs demo- Demo only in ventilated, open areas- Keep safety distance- Fire extinguisher nearby	1	3	3
Manual handling of equipment	Participants	Back strain, injury due to improper lifting	3	2	6	- Warm-up and lifting techniques taught- Instructor supervision- No solo lifting of heavy items	1	2	2
Insufficient understanding of ATEX regulations	Participants	Uncontrolled operation in hazardous zones	3	5	15	- ATEX theory covered in detail- Scenarios explained before exercises- Use of ATEX-compliant tools and environments	1	3	3

Signatures

This document must carry the signature of at least two competent persons, usually one of the instructors and a person representing the legal owner of the on-site structure, prior to training delivery. The signature states that they understand and comply with the requirements.

Position	Print Name	Signature	Date