

HYDROGEN SKILLS ACADEMY

Hydrasun Hydrogen Safety Awareness Course

The Hydrasun Hydrogen Safety Awareness one-day course is designed for new entrants, those already working, or those considering the transition to working in the hydrogen sector. With more novel and innovative applications for hydrogen anticipated, we need to ensure that we firstly identify, and then manage the risks associated in working with hydrogen safely. A fundamental understanding of hydrogen's physical properties and key behaviours will be key to safely developing and deploying it as a net zero energy vector.

This course will provide the foundation knowledge in working safely with hydrogen. On successful completion, the delegate will be awarded a Hydrasun certificate of course completion.

COURSE DURATION

- 1 day

PRE-REQUISITE

- None

CERTIFICATION

- Hydrasun certificate of attendance

TRAINER

- Our trainers and assessors have been certified by external accreditation bodies

COST

- Price on application – maximum 6 delegates per course

COURSE DETAILS

Introduction to the physical properties of hydrogen and how it differs from traditional fuels

- Material effects and system design and selection of materials for hydrogen systems

Hazard identification and hydrogen safety

- Hazard analysis and risk assessment
- Flame detection including thermal imaging
- Leak detection
- Hydrogen piping systems, layout and design
- General hydrogen storage considerations including ventilation requirements

Understand the behaviour of hydrogen in different phases

- Use of liquid hydrogen
- Gas detection, purging and gas handling

Know the regulations that relate to the use of hydrogen, and when they apply

- Dangerous Substances and Explosive Atmospheres Regulations (DSEAR)
- Hazardous Area Classification (HAC)

Design appropriate procedures for handling liquid and gaseous hydrogen

- Risk mitigation and control measures
- Fire safety / emergency response and emergency shutdown systems
- PPE selection
- Electrical Equipment considerations inc ATEX