Hydrogen Safety Assurance

TÜVRheinland®
Risktec

Clean Energy

What's the purpose?

This course introduces the practical tools and techniques to allow hydrogen equipment and facility designers and developers to build a robust yet pragmatic safety assurance framework and apply this to ensure and demonstrate that they are reducing risk to As Low As Reasonably Practicable (ALARP). It builds on tried and tested approaches from other more mature industries, adapting these where necessary to suit the specific characteristics and challenges of hydrogen as an energy vector. The objective is to introduce the challenge that hydrogen presents, highlighting both commonalities and differences between hydrogen and well-understood hydrocarbons.

Who is this for?

Managers, engineers, operators, HSE advisors and risk management practitioners involved in hydrogen energy projects.

What does it cover?

- Introduction to hydrogen
- Risk assessment for hydrogen
- Hazard identification
- Safety studies (HAZOP/LOPA/SIL)
- Relevant standards and regulations
- QRA & consequence modelling & assessment
- Emergency response and crisis management
- Safety Management Planning

After completing the module you should be able to:

1. Have an understanding of the hydrogen hazard, its specific characteristics and challenges.
2. Understand how established risk assessment tools and techniques can be applied to hydrogen schemes, with appreciation of the limitation of these techniques.
3. Define the purpose and benefits of the formal demonstration that risks are managed to ALARP, and understand how this can be best achieved.

	Delivery method: face-to-face
Attendance only	2 days

If you are a corporate client and would like a customised delivery, please contact the training team to discuss your requirements.

What prior study is recommended?

Education, skills or experience equivalent to undergraduate level.

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