



## INSPIRE: REVOLUTIONISING TRAINING IN WELDING INSPECTION FOR HYDROGEN PIPELINES

**[Porto Salvo, FEB, 2025]** – The INSPIRE project, co-funded by the European Union, addresses the critical need for innovative vocational education and training (VET) solutions in welding inspection, with a focus on the fast-growing hydrogen pipeline sector. As the transition to green energy accelerates, ensuring the safety and efficiency of hydrogen infrastructure is essential. INSPIRE aims to equip professionals with the specialised skills to meet these challenges.

### Key Objectives

The INSPIRE project focuses on developing advanced training resources for welding inspection, through augmented reality (AR) technologies to enhance learning outcomes. By providing state-of-the-art educational tools, the project ensures that future professionals are well-prepared for the unique demands of inspecting hydrogen pipelines.

### Training Innovation

INSPIRE introduces an innovative approach to vocational training by integrating AR technology into the learning process. This method enables trainees to gain practical experience in a safe, controlled environment.

At the same time, the INSPIRE project will work on modularising the European Welding Inspection training programme. Modularisation can respond to the emerging needs of industry, such as hydrogen topics, by providing quality training that is flexible and quick to implement.

### The training programme is designed to:

Enhance the understanding of hydrogen pipeline welding inspection.

Improve skill acquisition through immersive and interactive AR sessions.

Facilitate the adoption of green and digital competencies within the VET sector.

### Pilot Implementation

The INSPIRE training programme will be piloted in several countries, targeting both aspiring and experienced welding inspectors. The pilots will test the effectiveness of AR-enhanced training modules, ensuring they meet industry standards and address the skills gaps identified in the hydrogen pipeline sector.

### Addressing Industry and Sustainability

The project aligns with the priorities of the Erasmus+ programme by addressing digital transformation and sustainability within the VET sector. By incorporating AR technologies, INSPIRE reduces the need for resource-intensive physical training setups, contributing to environmental sustainability while enhancing digital readiness and resilience.

### Project partners

The INSPIRE partnership comprises leading organizations from across Europe, bringing together expertise in welding, education, and technology. The collaborative effort ensures the development of a comprehensive and harmonized training programme that reflects the needs of the industry and complies with European qualifications frameworks.

The project coordinator is the Welding Society of Finland – SHY, (<https://shy.fi/>) and the partners are the European Federation for Welding, Joining and Cutting – EWF (<https://www.ewf.be/>); the Welding Greek Institute, (<https://www.wgi.gr/>); the Asociación Española De Soldadura Y Tecnologías de Unión, from Spain – CESOL - (<https://www.cesol.es/>); AC-TECH LTD (<https://ac-techcyprus.com/>) and Transition Technologies PSC Spółka Akcyjna – TTPSC (<https://ttpsc.com/pl/>).

## Partners



Suomen Hitsausteknillinen Yhdistys  
The Welding Society of Finland



Erasmus+