

VR-VET – VIRTUAL REALITY NETWORK FOR VET PROVIDERS

[Porto Salvo, May, 2024] - The VR-VET project aims to revolutionize Non-Destructive Testing (NDT) training methodologies through innovative pedagogical approaches and the development of an immersive virtual reality (VR) training platform.

Led by a consortium of international partners, VR-VET is set to strengthen transnational collaboration between key stakeholders, fostering innovation and co-creation within the NDT training. By equipping trainers from Vocational Educational and Training (VET) with cutting-edge VR training techniques, the project seeks to address societal challenges and drive educational innovation.

At the core of the VR-VET project is a commitment to advancing NDT training through state-of-the-art technologies and pedagogics. The use of VR technologies has been utilised in training in recent years, making it possible, among other things, to reduce the impact on institutions' environmental and financial resources. At the same time, trainers and trainees will have the opportunity to be prepared for crossing the digital age effectively, while also promoting sustainability and inclusivity within the sector.

Key highlights of the VR-VET project include:

Innovative VR Training Platform: Development of a pioneering VR training platform tailored specifically for specialists in non-destructive testing, focusing on liquid penetrant testing methods. This platform will provide an immersive and interactive learning experience, reducing the need for traditional face-to-face training methods.

Training Material Development: Creation of innovative training materials optimized for VR training, supporting both green and digital transitions within the NDT sector. These materials will facilitate the integration of VR technology into training curricula, driving efficiency and sustainability.

Pilot Courses and Knowledge Exchange: Organizing pilot courses to test the effectiveness of the VR training solution, along with a series of events aimed at disseminating new knowledge, exchanging best practices, and promoting excellence in VET. These initiatives will foster collaborative networks at national and European levels, driving continuous improvement in NDT training standards.

The VR-VET project represents a significant step forward in the evolution of vocational education and training. With VR technology, the project aims to not only improve learning outcomes but also contribute to the broader objectives of the European Green Deal and the UN's Sustainable Development Goals.

About VR-VET:

VR-VET is a collaborative project aimed at enhancing vocational education and training in the Non-Destructive Testing (NDT) sector through innovative VR technology. Led by a consortium of international partners, the project seeks to revolutionize NDT training methodologies, driving sustainability and digital transformation within the sector.

The consortium includes organizations with broad experience in ERASMUS+ funded projects:

The project coordinator is **ISIM Timisoara** (<https://www.isim.ro/ro/>) a Romanian center of scientific and technical competence in the field of welding and material testing.

The Bremer Institut für Produktion und Logistik (<https://www.biba.uni-bremen.de/>) is a research institute focused on engineering science and will develop the virtual environment.

Nano Inteliform (<https://www.inteliform.ro/>) is an industrial partner in the design of complex process equipment and manufacturing.

CESOL - Asociación Española De Soldadura Y Tecnologías De Unión (<https://www.cesol.es/>), a non-profit company in the service of welding and other technologies union.

Ipunto Ensayos no destructivos S.L. (<https://ipend.es/>) is an industrial company within inspection services, training and quality control using non-destructive testing.

IIS - Istituto Italiano della Saldatura (<https://www.iis.it/en>), an Italian group that operates for the purposes stated in the Articles of Association of spreading knowledge in the field of welding.

Walter Tosto (<https://www.waltertosto.it/en>) with a consolidated experience in the design and fabrication of critical items for the process industry, in particular Chemical, Petrochemicals, Oil & Gas and Energy, today is recognized worldwide as a leading manufacturer of top quality high pressure equipment and vessels.

EFW - European Federation for Welding, Joining and Cutting (<https://www.efw.be/>), is a European, non-profit association that acts as a representative of the manufacturing community in Europe providing the exchange of scientific and technical information and contributes to the removal of technical barriers, in the field of welding technology.

Partners



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