

Digital Training for European Welding Inspectors

To enhance training capabilities of **VET teachers** and **trainers** and develop digital educational materials to support the **teaching and learning** in the field of welding inspections.

Newsletter #4, December 2023

GET TO KNOW D-EWI PROJECT



D-EWI project started in **January 2022** and the main objectives, to be reached until the end of December 2023, is to enhance the training capabilities of **VET teachers** and **trainers** and the develop of **digital educational materials** to support the implementation of digital technologies for **teaching and learning**, in the field of welding inspections.



WEBSITE

PARTNERS

D-EWI | LATEST ACTIVITIES: SEPTEMBER 22nd, 2023

On **September 22, 2023**, the fourth transnational partners meeting for the D-EWI "Digital Training for European Welding Inspectors" set up at the headquarters of the Italian Welding Institute (IIS) in Genoa, Italy. During this meeting, an extensive review of the technical accomplishments achieved thus far was undertaken, and partners were briefed on the requisite information for the forthcoming technical-financial report to be compiled at the project's conclusion, adhering to the stipulations outlined in the project proposal.

The **focal point** of the event centred around discussions on the development of e-learning educational materials. A comprehensive overview of planned activities was provided, ensuring a nuanced understanding by all partners, and deadlines for implementation were firmly established. Additionally, the meeting agenda encompassed deliberations on the updating of standards, guidelines, and rules pertaining to distance learning, e-learning, and digital tools.

Significant attention was devoted to planning the Second Learning, Teaching and Training activity. The **goal of this event** was to enhance the skills of the technical staff from partner organizations involved in the training of European and International Welding Inspectors. Additionally, the meeting supported the partnership on the organization of the Multiplier Events to spread the project's outcomes, including workshops scheduled for Romania, Spain, Italy, and Hungary. The European Conference set to take place in Portugal was also a key topic of discussion, with the agenda and outline of the event to be presented. The collaborative exchange during the meeting underscored the project's commitment to advancing digital training for European Welding Inspectors, with meticulous planning and strategic considerations evident in every facet of the discussions.

D-EWI | LATEST ACTIVITIES: SEPTEMBER 25th TO OCTOBER 4th, 2023

From **September 25th to October 4th**, in the framework of the D-EWI "Digital training for European Welding Inspectors", the C2 short-term joint staff training event was held at the headquarters of the Italian Institute of Welding (IIS), in Genoa, Italy.

The C2 event aimed to develop the skills of project partners' staff in carrying out inspections. During the event **exchanges of best practices** between **specialists, teachers and trainers** took place, contributing to the improvement of educational materials related to weld joint inspections and to the improvement of the level of key competences relevant to the welding industry.

The **activities** carried out contributed to the achievement of **project objective O2**: "Development of innovative e-learning educational materials to improve the level of key competences in welded joint inspection".

On the occasion of the event, **discussions were held with representatives** of the D-EWI project partners for the dissemination and exploitation of the results obtained, as well as for the purpose of establishing new partnerships for participation in project competitions or other future collaborations.



DEWI | MULTIPLIER EVENT BY CESOL - MADRID, SPAIN (15th OF NOVEMBER 2023)

The **multiplier event** of the E2 project was organised in Spain by **CESOL**, at an event in Madrid on the 15th of November 2023, which was attended by 40 people. Therefore, for the E2 multiplier event the main **target group** consisted of representatives of industry stakeholders, specialists from SMEs involved in welding manufacturing, representatives of **ATB or training schools** in the region/country, **trainers and teachers** from **academia** and **R&D institutes, engineers** and other **specialists** who wish to develop their career in the field of welding inspection.

During the **E2 multiplier event** the topics covering all **intellectual outputs** were presented:

- **I01**: Presentation of digital e-learning tools in the training process;
- **I02 to I04**: Information about the new digital materials developed in the framework of the project and the related e-learning opportunity representing the main intellectual outputs of the project;
- **I05**: Information about the new draft standards and guidelines related to e-learning practices using digital tools.



Therefore, all **intellectual results** were **disseminated**, and emphasis was given to the new digital educational technology through the implementation of an e-learning service for a proper VET in the field of welding, in order to increase the performance and effectiveness of the learning system.

Thus, the **E2 multiplier event** in Spain contributed to the dissemination of all intellectual results of the project.

During the **workshop**, leaflets were distributed to all attendees to promote the future **e-learning courses** for D-EWI that will be organised during the sustainability period of the project.

RESULTS

D-EWI: Final European Conference (Portugal – Lisbon: 20th of November)



The **Final European Conference** was organized in Portugal – Lisbon – by the European Welding Federation (EFW), on the 20th of November 2023.

This landmark event brought together partners and invited stakeholders from Industry and Education, including EWF sectoral members from **all over Europe**.

The D-EWI Final European Conference was integrated into the "Sustainable Futures: Green and Digital Skills Manufacturing" workshop that focus on the role of green and digital skills to allow advanced manufacturing industry to achieve the Twin Transition towards achieving a more sustainable future in Europe, and in the Global context.

The **D-EWI project results** were presented in a dedicated Roundtable, where the best practices in training delivery, methods and tools were map and explored with the participants in the event.

This event marked the final stretch of the D-EWI project, offering a **comprehensive reflection** on the achievements made during the previous two years of collaborative partnership. The **main results** of the project were highlighted:

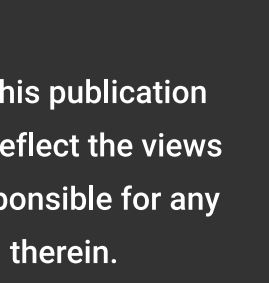
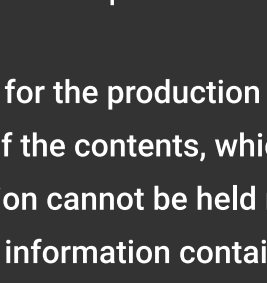
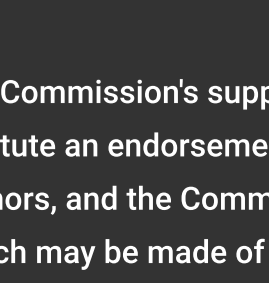
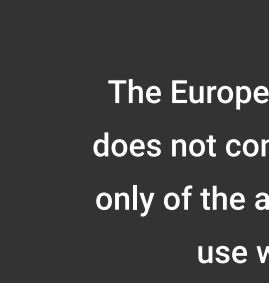
- The Guide for Teachers and VET Trainers on Implementation and Usage of E-learning Digital Tools;
- The e-learning Educational Materials on:
 - Quality Assurance/Quality Control in Inspection;
 - Testing of Welds and Reporting;
 - Practical Work on Testing;
- The International Standardisation of Practices in e-learning by Digital Tools.

According to the Global e-sustainability, remote working and e-learning have the potential to reduce 16,6 billions tons of CO2 per year by 2023. Also, the **Environmental Protection Agency (USA)** indicates that, in 2018, 26% of municipality waste came prevention from paper and paperboard. These impacting numbers were the starting point to justify the importance of embedding distance learning in the training system and reduce the footprint from training. The main conclusions point to the benefits of making training more digital, reaching more workers and with less impact on the environment.

How to successfully introduce **green and digital practices** into training? This was also a question that was explored in the D-EWI presentation. The project took the opportunity to present the set of new and innovative digital training materials, including the guide for teachers and trainers, in the scope of D-EWI PR1. Currently, the demand for digital education is growing sharply, and training centres need to adapt to the current trend. There are not enough lecturers who have experience in e-learning and not all lecturers are prepared for this new approach. The digital training materials developed for European Welding Inspectors, in the modules of Quality Assurance/Quality Control in Inspection, Testing of Welds and Reporting and finally Practical Work on Testing, was also presented and showcased as an example of a good practice for training delivery, tools and methodologies.

The **overall assessment** of the conference was overwhelmingly positive, with the D-EWI project garnering recognition and participants expressing keen interest in delving deeper into the presented solutions and implementing them in practical contexts.

D-EWI PROJECT PARTNERS



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