



**GREEN
WELD**

GREENWELD
Green Welding Certificates

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GREENWELD: Green Welding Certificates

The GREENWELD Project intends to focus on welding technology and the sectors for which this technology is used, addressing the challenges to identify and develop these new skills for the green transition.

For the digital and green transition, it is necessary to address the issue of key competencies such as green, digital and sustainable skills. It is necessary to identify these skills and develop strategies to overcome these needs. There are sectors that the transition will have less impact, but some such as construction, agriculture, automotive, among others, will require workers to acquire new skills as their sector is restructuring. Vocational and Educational Training (VET) centres will be the forerunners of this digital and green transition, as they are a pillar for the training and education of the current and future workforce.

GREENWELD focuses on developing curricula to address green skills for welders and also how to adapt learning methods with a greener point of view training (e.g., use of welding simulators) and education can be implemented with a greener point of view. The starting point will be the EWF Qualification for Welders.

In relation to the above, once the competences have been identified, training programmes need to respond quickly to the new competence requirements. GREENWELD will implement the developed training programme focusing on green skills in 3 different countries (Denmark, Greece and Spain), reaching 20 students per country. The programme will focus on students who want to become welders, but also on current welders who may need the green skills to meet the market needs. At the end of the pilot activities, green welding certificates will be awarded to candidates. GREENWELD is, for these reasons, an added value for European qualifications.

Education and training are the main engine of any society, so all of us needs lifelong education. In the context of Industry 4.0, technical education is one of the main goals of modern societies without which there would be no progress, and welding is an essential cross-sectoral manufacturing process, performed in almost every major industry. Moreover, in the current context created by the pandemic situation, the training of people became even more difficult, and thus, people accessibility to face-to-face training is limited. In this context, the opening to the digital learning area has growing fast, the e-learning market being estimated to reach a global \$ 200 billion by 2024.

Where the welding process is concerned, a whole range of factors have an impact on sustainability. These include details of the welding technology like system costs, raw materials, filler materials or energy



efficiency. To get an overall picture, it is worth looking at the entire process chain and GREENWELD will focus in one very important part of the process chain: the Welders.

GREENWELD project (Green Welding Certificates) will also identify and develop new learning methods to improve the sustainability of the implementation of the training an example, virtual training, gamification or welding simulation that novice welders can use to complete the training in basic skills and torch control. The new learning methods enables the user to learn how to use and then practice using different welding processes. This type of training thus makes a very positive contribution towards sustainability, contributing to the horizontal priority of the E+ programme, Addressing digital transformation through development of digital readiness, resilience and capacity, with a focus on Vocational Education and Training (VET).

The course will allow further development according to international guideline and the achievement of a harmonized education.

Project partners

The consortium comprises entities with a broad experience in ERASMUS+ funded projects. The project coordinator is MERCANTEC, from Denmark (<https://www.mercantec.dk/>). The European Federation for Welding, Joining and Cutting, from Belgium (<https://www.ewf.be/>); The Welding Greek Institute, from Greece (<https://www.wgi.gr/>); SWISS APPROVAL, from Greece (<https://www.swissapproval.gr/>); CESOL - Asociación Española De Soldadura Y Tecnologías De Unión, from Spain (<https://www.cesol.es/>); and Talleres Corral Mecanizados, from Spain (<https://www.tallerescorral.com/>).

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