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Digitization in vocational training using the example of welding technology – DABS 4.0 –

Erasmus+ KA 02 – Strategic Partnership



Funded by the European Union



Topics of DABS 4.0

The teachers from vocational institutions from three European countries are working together on digitalization in this project and exchanging their experiences. They are about managing digital transformation by developing digital readiness, resilience and capacity. The implementation of innovations in vocational training and further education, particularly in the area of welding technology, is the focus of the exchange and further training. In addition to considering pedagogical-didactic issues relating to digital transformation, one's own digital skills, for example in AR and VR applications as well as in the use of AI, are also expanded. To this end, we will work together on multilingual digitization for teaching. But also other digital changes in modern times Workplaces such as CNC technology and robotics should receive attention. With this digitalization, certain international standards could be secured at the locations. In the exchange of experiences on virtual learning, the use of the SOLDAMATIC welding simulators in exams is also a central topic for discussion and thus the question of to what extent a welding simulation is the real thing Can replace welding in training. The same applies to the use of artificial intelligence (AI) in lessons and in examination situations in vocational training and further education.

The DABS 4.0 network

The vocational school network is a long-standing partner . Each participating facility will host a meeting at its location. The network was consolidated in the previous project DESA 4.0 from 2019 to 2022. In terms of content, DABS 4.0 follows the previous project, with the topic continuing the experiences gained.

Goal of DABS 4.0

The aim of this project is primarily to exchange experiences about the benefits of digitalization in teaching at vocational institutions. The use of a welding simulator in lessons and exams will serve as a thematic example. Welding simulators are already being used in lessons at the majority of partner institutions. New simulation examples such as “SimSpray” in class are discussed and further training introduces AR and VR technology. The use of AI in teaching is also the subject of the exchange of experiences and requires attention. In this way, new digitizations can be created and VR glasses can be used in the partner facilities. The status of digitalization at the partner institutions and digital learning using learning platforms will be presented and reflected on. The planning of joint teaching projects and student internships will be further intensified.

Germany - Gifhorn



<http://www.bbs2-gifhorn.de>



Basque Country - Ordizia



<http://www.goierrieskola.eus>



Greece - Athen



<http://7sek-athin.att.sch.gr>



Germany - Leer



<https://www.bbs2leer.de>

